CL-Touch	User Guide	by Honeywell

CENTRALINE FAMILY

USER GUIDE

CL-TOUCH

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CL-TOUCH

INTRODUCTION

General

The CL-Touch operator interface, in the following simply named CL-Touch, allows operating controllers belonging to both, the CentraLine Family (e.g. PANTHER, TIGER) and to the Excel Web Family (XL1000C or later versions only). CL-Touch automatically recognizes the connected controller type (Excel Web Family or CentraLine Family) and automatically starts the correct form of communication.

CONTROLLER_1		am(s) (Para	ameter(s)	
User address	Description	Value	Manual	
BL1_FlowTem BL2_FlowTem	Boiler_1 Boiler_1	<u>16.95 °C</u> 30.55 °C		Θ
CO2 Monito	August State State	1048.11 ppm		WA
HG1 FlowTem	Heating	45.33 °C		
Fast Access Lists	E FAL			
₼⊴₽₢) % 🖂			A

Fig. 1. CL-Touch operator interface

The CL-Touch is operated using the finger or the stylus provided as an accessory with every device. You can navigate through the screens, selecting options and making inputs via tapping with the finger or with the stylus.

When using the CL-Touch as the operator interface for an Excel Web controller, it will display only the web pages of the Excel Web controller. When using it for a CentraLine Family controller, only the operation pages for the CentraLine Family will be displayed.

 Controller Models
 CL-Touch can communicate with CentraLine Family controllers and with Excel Web controllers.

 CL-Touch can operate the controller it is connected to, and any controller which is connected on the same bus (bus-wide operation).

NOTE: The CentraLine Family of controllers must have up-to-date software that includes the bus-wide access mode feature for CL-Touch.

Bus-wide operation	Panther / Mini-Panther / Tiger / Lion / (XL50 / 100 / 500 / 800)
	When operating on a LON-Bus in bus-wide mode, Controllers and Front-ends
	(ARENA) will be displayed in the bus-wide controller selection list box.
	Upon selection of EBI or ARENA, the CL-Touch generates an error message, and
	once this error message is confirmed by the user, CL-Touch will fall-back to the local controller home screen.

Manual	Organiza	ation

Purpose	This manual explains how to connect and operate the CL-Touch for the CentraLine Family controllers and Excel Web controller operation.
Organization	This manual is divided into the following sections including this introductory section.
	The "Introduction" section briefly describes the CL-Touch MMI.
	The "Getting Started" section describes:
	 Connecting CL-Touch to CentraLine Family controllers and Excel Web Family controllers CL-Touch Startup screens Configuring CL-Touch for CentraLine Family controllers and Excel Web Family controllers
	The "Operate CentraLine Family Controllers" section describes:
	 Operating Icons Home page and Controller Status Indication Login/Logout procedure Bus-wide Access functionality Configuration settings Information display Operation of CentraLine Family Controllers applying particular functions such as: Alarms Controller Datapoints Parameters Time Programs Fast Access Lists Trending
	The "Operate Excel Web" section describes:
	 Home page and Basic functions Login/Logout procedure Change Context (Bus-wide Access functionality) Configuration settings Information display (project, controller, pant) Operation of CentraLine Family Controllers applying particular functions such as: Alarms Controller Datapoints Parameters Schedules Calendars Fast Access Lists
	The "Service Functions" section describes:
	 service functions that allow updating the application software of the CL- Touch, and setting up and changing the Windows CE configuration.

GETTING STARTED

Getting started includes the following sections:

- Connect CL-Touch to Excel Web or CentraLine Family controller
- Startup screens
- Configure CL-Touch

Connect CL-Touch to Excel Web or CentraLine Family Controller

All connections are explained in the mounting instructions MU1Z-0929GE51.

Disconnected Controller When disconnecting CL-Touch from the controller, it must be power cycled before re-connecting it to the controller. Only this will ensure that the C-Bus number will be displayed correctly.

Prerequisites/Recommendations for using CL-Touch

1. In order to allow for bus-wide operation, the controller to which CL-Touch is connected needs to be upgraded to at least the version mentioned below:

XL50 / Panther / Mini Panther	->	2.06.14
XCL5010	->	2.06.14
XC5010C	->	2.06.14
XL100C	->	2.06.14
XCL8010A / Lion	->	3.01.03

- If a firmware update is required, this can be done with CARE or Excel Online. CL-Touch can be used to upgrade the controller firmware for the controller it is directly connected to. (After this controller is updated, firmware update can be done bus-wide through this controller.)
- Ensure that all controllers connected on the C-Bus are powered up and their applications are running properly before powering up CL-Touch connected to any controller on the C-Bus. Use Excel Online to ensure proper functionality of the controllers.
- 4. Ensure that CL-Touch is properly connected before powering it up. This will allow automatic connection to the controller.
- 5. Operate the CL-Touch screen with the stylus provided or with your finger. Do NOT use sharp devices like screwdrivers!
- 6. The touch screen should be calibrated before operating any other functionalities of the product. For CentraLine Family operation this can be done by calling up the configuration screen after being online. See section "Configuration" For Excel Web operation this can be done either in the start-up operation which comes up after power is connected, or by calling up the configuration screen after being online. See section "Configuration screen after being online. See section"
- 7. If the controller Auto detection mechanism does not work the first time, then tap on the **Refresh** icon in the toolbar to detect the controller.
- 8. If you want to disconnect the CL-Touch from a controller and connect it to a new controller having the same controller number (assuming that both controllers do not reside on the same C-Bus) you should delete the previously created fast access lists of the first controller before connecting it to the new controller. Otherwise CL-Touch will display the fast access lists referring to the old controller, which will not match.
- 9. Memory sticks must be formatted before use in FAT (no FAT32)

USB Memory Device Use with CL-Touch

NOTE: This section applies to CentraLine Family Controllers only.

The CL-Touch has two USB ports for connecting an USB memory device to it in order to upload/download applications, download firmware and import parameter files etc. The USB memory device should have the directory structure as shown below. If this structure is not present in the device, you have to create it using a PC.

			· · ·	
Removable Disk (F:)				
File Edit View Favorites Tools Help				
G Back · O · D / Search Folders	II •			
ddress 🗣 F:\		. 50		🕶 🋃 Go
Olders X Desktop ApplicationDuloadFiles My Computer ApplicationUploadFiles Y Operating System (C:) Y CD Drive (D:) Y Work (E:) Y ApplicationDuloadFiles ParameterFiles TrendFiles Y ApplicationDuloadFiles ParameterFiles TrendFiles Y ParameterFiles Y TrendFiles Y Notorol Panel Y My DxDM Places Y Recycle Bin		Type File Folder File Folder File Folder File Folder File Folder	Date Modified 12/26/2007 2:22 PM 12/26/2007 2:23 PM 12/26/2007 2:23 PM 12/26/2007 2:23 PM 12/26/2007 2:23 PM	
	novable Disk (F:)			🖉 😻 🗾 🖓 🌉 2:28 PM
Fig. 2. 1	Directory Structur	re required	in the memory device	
	The following fol	lders should	l be present in the memory de	vice:
ApplicationUploadFiles	This folder is for Whenever an ap	uploading to plication is the applic	he application from the contro uploaded, it will be stored in tl ation in other directories, then	ller to the memory device. his directory by default. If
ApplicationDnloadFiles	controller. It is re	ecommende	ng the application from the me d to create a sub-directory un ontroller application in it.	
FirmwareDnloadFile	You can create	different fold	ng firmware from the memory of lers for different firmware of d re files in the same.	
ParameterFiles		/ parameter	ormation from parameter files files generated with CARE in	

TrendFiles To store the trending information on the memory device. All the data recorded during trend recording process is directly stored on the memory device. It is mandatory to have the USB memory device connected to the CL-Touch for using trending functionality.

Startup Screens

Powering up CL-Touch

On successfully powering up CL-Touch (for connections, see CL-Touch mounting instructions MU1Z-0929GE51, the CL-Touch MMI will display the CentraLine logo on the screen as shown below. This screen will appear for approximately 20 sec.



Fig. 3. Startup screen with CentraLine logo

Next, the CL-Touch will try to detect the CentraLine Family controller and Excel Web controller. In case of the Excel Web controller, CL-Touch will try to find the Excel Web controller by pinging the previously stored IP address of the Excel Web controller. During this time, it will show the auto detection message as shown below. This screen has a time-out of 1 min.



Fig. 4. Auto detection message

Depending on the detection of the controller connected to the CL-Touch, there are four possible scenarios:

Case 1: CL-Touch detects a CentraLine Family controller only.

Case 2: CL-Touch detects an Excel Web controller only.

Case 3: CL-Touch detects both, a CentraLine Family controller and an Excel Web controller.

Case 4: CL-Touch does not detect any controller.

Case 1 On successful detection of a CentraLine Family controller by CL-Touch, the screen below will be displayed. You are directed automatically towards the homepage of the CentraLine Family controller, which is the fast access list overview.

lser address	Description	Value	Manual	
L1 FlowTem	Boiler_1	<u>16.95 °C</u>		1
L2 FlowTem	Boiler_1	<u>30.55 °C</u>		(
O2 Monito	CommonAla	1048.11 ppm		7
G1 FlowTem	Heating	<u>45.33 °C</u>		
6				

Fig. 5. CentraLine Family controller mode of operation home screen

For detailed instructions on operating a CentraLine Family controller, please refer to the "Operate CentraLine Family Controller" section.

Case 2 On successful detection of an Excel Web controller by the CL-Touch, the screen below will be displayed. For further procedure, please refer to the "Configure CL-Touch for Excel Web Controller" section.

Excel Web			
	Set Up		
	Continue		
	Close		
Fig. 6. Ex	cel Web operation	startup scree	n

Case 3, 4 If CL-Touch detects both, a CentraLine Family controller and an Excel Web controller, or if CL-Touch does not detect any controller, the screen below is displayed. You can select any mode of operation.

Panther	
Excel Web	

Fig. 7. Startup screen when both controllers/ no controllers are available

For further detailed instructions on operating a CentraLine Family controller or Excel Web controller, please refer to the following sections:

- "Operate CentraLine Family Controller"
- "Configure CL-Touch for Excel Web Controller" and "Operate Excel Web Controller"

Configure CL-Touch for Excel Web Controller

Depending on the detection of the controller connected to the CL-Touch, there are two possible Excel Web scenarios:

Case A: The CL-Touch detects the Excel Web controller.

Case B: The CL-Touch does not detect the Excel Web controller.

Case A (Excel Web is detected) Upon successful detection of an Excel Web controller by the CL-Touch, the screen below will be displayed. When tapping the **Set up** button, you will be able to do the Interface-related settings as well as to set the Excel Web IP address. This screen has a time-out of 20 sec, so if you do not select any of the options, the screen will be automatically replaced after 20 sec by the Excel Web controller homepage.

> If any network settings were done previously, these settings will be checked at the time-out of this screen and the Excel Web homepage will be shown; otherwise, the Interface settings screen stays on continuously. You can also go to the Excel Web homepage by tapping the **Continue** button.

Set Up	
Continue	
Close	

Fig. 8. Detection of an Excel Web controller

When tapping the **Set up** button, the following screen displays:

Network Settings	
BackLight	
Calibrate	
Language	
Continue	
Close	

Network Settings	Here you can input the IP settings for the CL-Touch and for the Excel Web controller.
BackLight	Here you can choose the backlight ON time.
Calibrate	Here you can calibrate the touch screen.
Language	Here you can select the language.
Continue	Here you can go to the Excel Web homepage.

history of the	
Network Settings	
BackLight	
Calibrate	
Language	
Continue	
Close	

Fig. 9. Excel Web Set up

Network Settings

- The network settings window shows the following three tabs. IP Information IP Address •
 - ٠
 - Excel Web IP Address •

IP Information tab

The *IP Information* tab displays the IP settings for the CL-Touch itself, with the addresses for IP, Subnet mask and Default gateway. Address type can be DHCP or Static as per selected IP address type on the *IP Address* tab.

Address Type	Static
IP Address	192 . 168 . 1 . 100
Subnet mask	255 . 255 . 255 . 0
Default gateway	
	Close

Fig. 10. IP Information screen

IP Address tab

The *IP* Address tab allows you to either manually specify an IP Address along with the Subnet mask and default gateway addresses for the CL-Touch itself, or obtain these addresses automatically via a DHCP server. Using a DHCP server will lower the risk of IP address conflicts on the network.

Chose desired option and enter appropriate addresses. Tap **Apply** button to save settings. Tap Close button if you want the settings left unchanged.

🔿 Obtain an IP Add	ress via DHCP
🔵 Specify an IP Ad	dress
IP Address	192 .168 .1 .100
Subnet Mask	255 , 255 , 255 , 0
Default Gateway	a a a
Apply	Close

Fig. 11. IP Address screen

Excel Web IP Address tab

Here you can specify the IP address of the Excel Web controller which you want to access. Note, that the IP address of the CL-Touch device and the Excel Web controller must not be the same.

Tap **Apply** button to save settings, and then tap **Close** button.

Excel Web.Set Up.Netwo	rk Se	ttings			
/IP Information (IP Add	ress	Excel	Web I	P Addre	ess
					_
Excel Web IP Address	0	.0	.0	. 0	
Apply			Clos	e	

Fig. 12. Excel Web IP Address screen

Calibrate For calibration, you should place the finger or stylus on the crosshair shown on the screen. This crosshair has five fixed positions on the screen which it follows one after the other as you touch on the requested point on the screen. After this sequence is complete, touch the display at any point to exit.

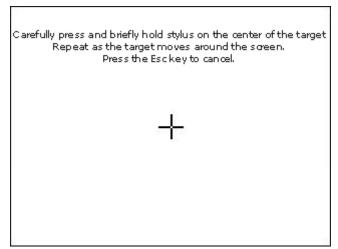
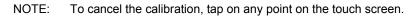


Fig. 13. Calibration screen



Backlight The Backlight option allows you deciding the duration for the backlight to remain ON if the module is in the idle state. This option can be activated by checking Automatically turn off backlight and then selecting the time from the drop-down listbox below.

Tap Apply button to save settings, and then tap Close button.

🔽 Automatically Tu	irn Off Back Light
Furn Off After	2 minute 🛛 💌
	15 seconds
	30 seconds
	1 minute
Apply	2 minute
	5 minute

Fig. 14. Excel Web backlight settings

Language

The Language option allows you to change the language of the Excel Web set-up screens. By default, the language is English. For the Excel Web set-up screens, the CL-Touch supports English, French, Dutch, Spanish, Swedish, German and Japanese languages.

NOTE:

In order to make additional languages available, the screens have to be translated, and an updated software – which includes the new language - has to be loaded into the CL-Touch.

In order to provide local language web-pages for the Excel Web operation, these Excel Web web-pages have to be translated. For details please refer to the Excel Web Software Release Bulletin.

Language:	English (United States)
	English (United States) Deutsch (Deutschland) français (France) italiano (Italia)
Apply	日本語 (日本) 中文(中华人民共和国)

Fig. 15. Excel Web language set-up

Select the language from the Language drop-down listbox.

Tap **Apply** button to save setting. The change confirmation dialog box displays.

ani	In order fi changes to ta	ke effect the 🔤
	device mus	st be reset
	OK	Cancel

Fig. 16. Reset

Tap **OK** to restart CL-Touch. Afterwards the screens will be displayed in the selected language.

Continue

When selecting **Continue**, the previous MMI settings are applied and the Excel Web homepage is displayed on the screen.

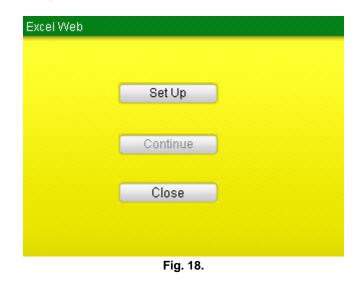


Fig. 17. Excel Web homepage

Case B (Excel Web Is not detected)

If no Excel Web controller or an unconfigured Excel Web controller is connected, or if the network settings of CL-Touch and Excel Web do not match, the *Excel Web* screen is displayed.

The **Continue** button on this screen is disabled as there are no or not matching previous settings stored on the Excel Web controller connected to CL-Touch. You must setup the network settings for the controller from scratch in order to be able to view the Web pages.



Tap **Set up** button. The Excel Web Set up screen displays. On this screen, the **Continue** button remains disabled until the network settings are updated successfully.

Network Settings	
BackLight	
Calibrate	
Language	
Continue	
Close	



Please refer to the "Network Settings" section to enter/update the network settings. Once the network settings are successfully updated, you can proceed to the Excel Web homepage by tapping the enabled **Continue** button.

Configure CL-Touch for CentraLine Family Controllers

If CL-Touch detects both, a CentraLine Family controller and an Excel Web controller, or if CL-Touch does not detect any controller, the screen below is displayed. You can select any mode of operation.

Panther	
Excel Web	

Fig. 20. Startup screen when both controllers/ no controllers are available

In order to operate a CentraLine Family controller, make sure,

- that the correct serial cable (XW585 or XW885) is connected both to CL-Touch and to the controller
- that the controller is powered up, running and operational with a loaded application.
- that in case a common transformer is used for CL-Touch and the controller(s), 24VAC and zero (signal ground) are not mixed up!! If this is the case, the serial cable will create a ground loop and a short circuit, which will result in a powerless CL-Touch (black display).

OPERATE CENTRALINE FAMILY CONTROLLER

If a CentraLine Family series controller is detected, a homepage like the following displays.

lser address	Description	Value	Manual
L1 FlowTem	Boiler_1	<u>16.95 °C</u>	
L2 FlowTem	Boiler_1	<u>30.55 °C</u>	
:02 Monito	CommonAla	1048.11 ppm	
IG1 FlowTem	Heating	<u>45.33 °C</u>	
6			•

Fig. 21. CentraLine Family Controller Home Page

Operating Icons

Horizontal Icon Bar	Icon Name	Function
<u> </u>	Home	Displays the Home page, which is the Fast Access List overview.
*	Bus-wide Switch Controller	Allows accessing any controller on the bus
	Login / Logout:	Allows logging in/logging out to/from a controller with specific access level
	Refresh	Refreshes (updates) the actual screen
×	Configuration	Allows setting/changing the configuration of CL-Touch and the controller (e.g. display, table sort order, date and time, and others).
	Trending	Allows recording datapoints in graphical format, and storing onto USB memory devices.
	System Alarms	Allows viewing system alarms

Vertical Icon Bar	Icon Name	Function
1°	Fast Access Lists	Allows creating, changing and deleting fast access lists, i.e. a quick view of datapoints, parameters, time programs
	Time programs/ Schedules	Allows viewing, creating, changing and deleting schedules
	Datapoints	Allows viewing, creating, changing and deleting datapoints
7E	Parameters	Allows viewing, creating, changing and deleting parameters
	Controller	Allows uploading/downloading applications, downloading controller firmware and FLASH EEPROM operations
	Information	Allows viewing information about the project, controllers, plants and control loops

Online/Offline Controller Status Indication

At any point of time during any operation mentioned above, if the controller happens

to go offline i.e. through disconnection with CL-Touch, the green LED icon 🤎 on

the screen will turn into a red LED icon s and all other icons except the 'Configuration' and 'Refresh' icons will be disabled unless and until the controller is reconnected to CL-Touch. When CL-Touch is offline, tapping the Refresh icon will start the auto detect function to reconnect to the controller. During this auto detection process, the LED icon is blinking alternately in red and green color. Upon successful reconnection, the previous screen will be re-enabled.

Jser address	Description	Valua	Manual	
user audress	Description	value	Ivianual	2
				1
				E
				0
				w
				W
st Access Lis				

Fig. 22. Controller is offline

NOTE: Tap the Refresh icon, after you have connected to a different controller!

Column Width Adjustment

The width of the columns displayed can be adjusted to match the length of the text that is displayed, e.g. datapoint names, time programs, etc. Simply tap with stylus or finger on the borderline between two columns, keep the stylus or finger on the display and move to the left or right. As soon as you release the stylus or finger from the display, the column width will change.

Sort Lines Option

The sequence of the lines can be sorted, by tapping on the header field of a column. A small arrow in the right side of the column header will display whether incrementing or decrementing sort order is active.

This option can be of interest, when datapoints or other information is to be sorted, like for incrementing sequence or for decrementing sequence.

Enter Data

Data such as values and names are done using the Input Panel which is automatically invoked and available when necessary.

XL_80	0.Fast Access Lists		
	List Of FALs		
	HOLIDAYS RECREATION AREA		
~~	FAL_Test		
	Input Panel		
	Esc 1 2 3 4 5 6 7 8 9 0 - = +		
	Tabqwertyuiop[]		
*	CAP a s d f g h j k l ; '		
	Shift z x c v b n m , / ←		
-	Ctl[áü]`[\] ↓[↑]←[→		

To enter data, tap the desired keys in the Input Panel.

To confirm entered data, tap on the Enter key in the Input Panel or tap on the tick mark' displayed in the dialog.

- NOTE: Confirming data using the Enter key in the input panel is only applicable to changes of:
 - datapoint attributes
 - datapoint values in time programs
 - parameter values
 - scaling of trend value graphs

CL-Touch Connected To An Applicationless Controller

If the connected controller does not contain any application, then only the following icons are enabled:

- Red Offline Indicator
- Controller
- Information
- System Alarms
- Refresh
- Login
- Bus-wide / Switch Controller

To provide the application, you need to have to login with access level 3 and then download the appropriate application in the controller. At the same time you may also connect to any controller on the C-Bus using the bus-wide functionality to perform regular operation for that controller.

Home

By default, the CentraLine Family homepage displays 'Fast Access Lists'. You will always be directed back to the homepage when selecting the

icon. A Fast Access List (FAL) is a user-defined collection of selected
 Datapoints,

- Time Programs,
- and Parameters

which can be viewed quickly for frequent monitoring of these values. Initially there are no FALs available. You can create new FALs by tapping the FAL icon. To create a new FAL, refer to the FAL section.

The desired FAL can be selected using the **Fast Access List** drop-down list box of. You can change values by tapping on the **Values** column of a datapoint and entering the desired value with the help of the input panel. To save the changed value, tap on the 'tick mark'.

Jser address	Description	Value	Manual 📤	
<u>DaTemp</u>	Discharge	<u>24.44 °C</u>		15
<u>MaTemp</u>	Mix Ai	<u>24.47 °C</u>		0
<u>Dat Temp</u>	Outside	<u>0.00 °C</u>		W
1	0.	1 X)		
ast Access Li	sts:			
HOLIDAYS RE	CREATION /	AREA	-	6

Fig. 23. Detection of a CentraLine Family controller

escription	Velue Value	Menuel		Ĥ
1000	🔿 Auto			
ommon.Al	🖲 Manual	16.9 6	°C	7
leating			- 10	
•		OK	Cancel	

Fig. 24. Modifying/Changing values of datapoints

To get the attributes of a particular datapoint, you can select the desired datapoint in the **User Address** column. This displays the attributes screen. The attributes with 'PEN' symbol can be edited while the attributes with 'LOCK' symbol cannot be edited. Enter the new value with the help of the input panel and tap 'tick mark' to save the value.

	Attribute	Value	Unit	
/	High alarm limit 🧹	150.00	°C	
1	High warning limit	150.00	°C	
1	Low warning limit	2.00	°C	
1	Low alarm limit	0.00	°C	
9	Engineering unit	3:""C" #1		
<u>.</u>	Characteri	255	NTC (°C)	-

Fig. 25. Datapoint Attributes

The *Time Program(s)* tab will direct you to the screen. The screen displays the time programs assigned to previously selected FAL. You can select another FAL from the **Fast Access Lists** drop-down list box.

XL_800.Home	
/Datapoint(s) Time Program(s) Parameter(s) 🔪	
Time program	0
AHU1	3º
TimeProq1	Θ
	w
Fast Access Lists:	
HOLIDAYS RECREATION AREA	0
(} ≪ ☆ ♥ ≫ ∞	

Fig. 26. Display of Selected Fast Access List (Time Programs)

On tapping the title in the **T.P. Name** column, you will be forwarded to the details of the particular time program. The details of the time program are explained in the "Time Program" section. On selecting the **Close** button you will be returned to the previous screen.

isplay <all></all>	ource: Holiday Prog. stive Daily Program:
Time Point	Value
00:00 Fan_Alarm	1(Alarm)
20:00 AHU_1_enable	1(Enable)
Today Override	Close

Fig. 27. Overview of Time Programs

The *Parameter(s)* tab will forward you to the screen displaying the parameter number, its description and also its value. The parameters are stored in files and these files can be selected by choosing the appropriate file from the **File no**. drop-down list box. You can select another FAL from the **Fast Access Lists** drop-down list box.

Parameter	Description	Value	
8	Input 6	0	
9	Hysteresis	O	🗖 🗖
10	Input 2	100	-
Fast Access L	ists:		4

Fig. 28. Display of Selected Fast Access List (Parameters)

Buswide Access

The CL-Touch MMI is capable of buswide access, i.e. the CL-Touch can access any controller on the bus though it is physically connected only to one controller on the C-bus. You can use buswide access by tapping on

the sicon. You will then have to select the desired controller from the **Controller** drop down listbox.

Wi	ndows	5CE			
	<u>Z</u> oom		<u>H</u> elp		
C102.	Buswi	ide			
(Contro)ller:	C102		
	0	Ok		Cancel	
6 4	3		<mark>%</mark> 🖂		<u> </u>

Fig. 29 Buswide Access

NOTE: On the LON bus, also front-ends like ARENA will appear in the **Controller** drop down listbox. When selecting a front end like ARENA, Excel Touch will attempt to verify the application version, will fail to do so, and subsequently will fall back to the operation of the local controller.

On selecting $\mathbf{OK},$ you will be forwarded to the homepage of that controller as shown below.

	Wind	lowsCE	_	
	<u>File Z</u> o	om <u>T</u> ools <u>H</u> elp		
¢	C102.Fa	ast Access Lists.Stefai	n	
	Datap	oint(s) (Time Program	m(s) (Parameter(s) 🔪	
		User address	Description	
		AL01BM_VA	Ventilator Abluft BM 📟	K
		AL01SM_AN_FS	Wächter Frost SM	\odot
		AL01SB_AN_FSLED_	Frostalarm LED SB	w2
		AL01SB_VA	Ventilator Abluft SB	
		ALO1SB MACPU	Vorerbitze	
			Save Close	Ó
	-			
I	0 4	\$ 🖰 🥝 💥 🖂 .		

Fig. 30. Buswide Controller Homepage

Login/Logout

A user can access any controller via CL-Touch by having one of three access levels. All users have basic access to view the information about parameters, data points, time programs etc. but in order to change/modify these values a user must have level 2 or level 3 access. Both access levels are password protected. You have to

select the 🕮 icon to gain access to these levels.

NOTE: You can login with one level only once at the same time.

The following table gives an overview of the various access levels required by the different functionalities:

Functionality	Level 1	Level 2	Level 3
Home/ Fast Access Lists	×	×	~
Bus-wide Access	\checkmark	\checkmark	✓
Login/Logout	\checkmark	\checkmark	✓
Configuration		e below for the acces	
Trending	\checkmark	\checkmark	✓
Alarms	\checkmark	\checkmark	\checkmark
Information	\checkmark	\checkmark	✓
Controller	×	×	\checkmark
Parameters	×	×	\checkmark
Datapoints	×	×	✓
Time Programs	×	\checkmark	\checkmark
Fast Access List Configuration	×	*	~

✓= Full access

x = Read Only access

Access Levels required for sections within the 'Configuration' K Functionality:-

Functionality	Level 1	Level 2	Level 3
Controller-Clock	×	✓	✓
Controller-RACL Cycle Time	×	×	✓
Controller- Communication	×	×	✓
HMI-Display	×	\checkmark	\checkmark
HMI-Calibrate	\checkmark	✓	✓
HMI-Backlight	×	\checkmark	\checkmark
HMI-Language	\checkmark	\checkmark	\checkmark
HMI-Clock	\checkmark	\checkmark	\checkmark
HMI-Options	×	×	\checkmark

✓= Full access

x = Read Only access

In the Login screen, tap the Login button.



Fig. 31. Login screen

In the *Enter Password* screen, enter the right 4 digit password for your level. The password can be in the range of 0000 to 9999.



Fig. 32. Password Login screen

Tap **Ok** button. You are directed to the homepage of the controller and the *Lock* symbol indicates 'Unlocked' status.

If the entered password is incorrect, the message 'Incorrect Password!!!' pops up Selecting **Close** directs you back to the *Login* Screen.

CONTROLI	LER_1.Logi	n.Enter Password	_
_г сі	L-Touch		
	In	correct password !!	
		Close	
	Ok	Close	
64	9 🛛 🗙		

Fig. 33. Error message for incorrect password

You can change the password for an access level. The change password option is only enabled if you have access level 3.

NOTE: It is necessary to use different passwords for level 2 and level 3. Using the same password for level 2 and level 3 results in having access only for level 2.

ONTROLL	.ER_1.Login	_
	(Looib	۲
	Login	1º
	Logout	C)
		WA
	Change Password	1
		9
a st	° ♥ X ₪	A

Fig. 34. Change Password option enabled

The screens for access levels 2 and 3 are shown below.





Pass\ ^{CI}	L-Touch		
Confit	Level	2 password changed !!	
101			
7		Close	
	Apply	Close	1

Fig. 36. Level 2 password changed successfully



Fig. 37. Level 3 password change screen



Fig. 38. Level 3 password changed successfully

If you do not enter the same password in the **Confirm** field, an error pops up and you will have to enter the password again. An error is also generated if you try to apply blank passwords.

CONTROLLE	and the second second	n.Change Password	
Passi ^{CL-}			
	1000	asswords you typed 🔼	J.
Confir	do no	ot match. Type the 👘	
	new pa	assword in both the	WA
		Close	1
P	Apply	Close	
		· /	
	r 🔿 X		
	Fig. 39. P	assword change error	



Fig. 40. Password change error

Configuration

The configuration for the CL-Touch as well as the controller can be accessed by \swarrow icon. On selecting this icon the following screen appears.



Fig. 41. Configuration Screen

Tapping the **Controller** button you are forwarded to the screen where you can view or change the settings related to the controller. Viewing/changing settings depends on the user's access level.

CONTROLLE	R_1.Configuration.Controller	
	Clock	3
	RACL Cycle Time	C
	Communication	W
	Close	
64 6	° ⊘ X ⊠	Â

Fig. 42. Controller Configuration Screen

Tapping the Clock button allows changing the clock settings of the controller

CONTROLLER_1.Co	nfiguration.Controller.Clock	
/Date & Time /Day	Light Saving Time	-
Date	4/29/2008	J.
Time	10:08:40 AM	
🔲 Use HMI Clo	ck	
Apply	Close	1
🕜 🔩 🗗 🥝 🤅		

Fig. 43. Controller Clock Configuration

In the **Date** and **Time** fields, enter data and time. The controller can also be instructed to use the clock of the CL-Touch MMI by tapping the **Use HMI Clock** checkbox.

Tapping the **Apply** button will apply the changes. Tapping **Close** will return you back to the previous screen.

Date & Time	DayLight	Saving Tim	e	
O Fixed D	Day	🔘 Sunda	ay	1
From	2 🔽	Mar] (
то	Last 💌	Oct	-	· V
🔽 Enable	DST			
	Apply	Clo	se	4

Fig. 44. Daylight Savings Time Controller Configuration

Daylight savings are used in some countries and hence there is a provision to set the controller clock according to these conditions. The *Daylight Savings Time* tab is primarily used for this purpose.

You have to specify the range of days for which you want to enable the daylight savings using the **From** and **To** fields. The **Enable DST** checkbox has to be tapped in order to enable the daylight savings during the selected period of days. You can also decide whether the DST should be enabled from **Sunday** or any other **Fixed Day**. Tap **Apply** button, and then tap **Close** button.

All applications running in the controller are based on RACL software. Each RACL cycle has its own cycle time. The *RACL* screen is for display only and shows the current cycle time. The range of cycle time is 0.25 secs to 60 secs.

CONTROLLER_1.C	onfiguration.(Controller.RACL	
Current Cycle Time	2.75 sec	Close	
New Cycle Time	sec	Set CycleTime	
Curr. Execution	1.88 sec		e
Current Statistics	R	efresh Statistics	
_{Cycle} Input Panel			
Esc[1]2]3]4 Tab[q]w]e CAP]a]s]d Shift[z]×]c Ctl[áü]`] \	r tyu fghj	90-= ♦ iop[] k ;; n,,,/,←	

Fig. 45. RACL Cycle Time Screen

The *Communication* screen allows viewing the communication settings of the bus and/or the modem. On the bus, the CL-Touch communicates with the controller via the controller's assigned controller number. The **Controller No.** field displays the number of the currently connected controller.

CONTROLLER_1Co	mmunication	
/Bus Configuration Mo	dem 🔪	G
Controller No New Controller No Bus Configuration(requ CBus Baudrate	1 1 1 1 1 1 1 1 1 1 1 1 1 1	● <i>≫</i> ⊕ ₩
Lon Bus ID Apply	1 Close	

Fig. 46. Bus Configuration

NOTE: When disconnecting CL-Touch from the controller, it must be power cycled before re-connecting it to the controller. Only this will ensure that the C-Bus number will be displayed correctly.

On the *Modem* tab, you can disable the modem by tapping **Disable Modem** checkbox at startup (controller should be reset prior to this operation). The modem options are only enabled if there is no application loaded/running in the controller, otherwise they are disabled.

If you want to use the modem you must reset the controller manually and then configure the modem as described in the following. Set the **Baud Rate**, the **GSM PIN** required to dial a number from the controller over the GSM network, and the

Application Memory in the range of 38 to 128 which will be allocated to the current application.

The **Trend** entries are automatically calculated by the controller dependent on the specified application memory. You cannot modify/change the number of trend entries.

The **Reset Modem** button will reset the modem configuration to default settings. Tap **Apply** button for saving of settings made.

🗹 Disable Modem			
Baudrate	9600	*	1
GSM Pin	******		1
Application Memory	141	KBytes	
Trend Entries	14	Entries	1
Reset Modem	Apply	Close	1

Fig. 47. Modem Configuration

Tapping the **HMI** button in the *Configuration* screen allows access to the following functions shown in Fig. below.

Refresh	0
Calibrate	
BackLight	6
Language	
Clock	
Options	
Close) e

Fig. 48. HMI Configuration

Refresh The refresh settings allow defining the refresh rate for displayed values. Tap on **Update Interval** drop-down list box and select an update interval. Tap **Apply** button.

Update Interval:	1 min 💌	
	3 sec	
	5 sec	
	10 sec	
Apply	1 min	
	Off	

Fig. 49. CL-Touch Display Settings

Calibrate CL-Touch screen can be calibrated using this function. Tapping **Calibrate**, the screen as shown below, is displayed. Follow the predetermined sequence of points on the screen where the crosshair appears in order to calibrate the touch screen.

NOTE: Once finished with the calibration touch the screen once at any place in order to leave the calibration screen.

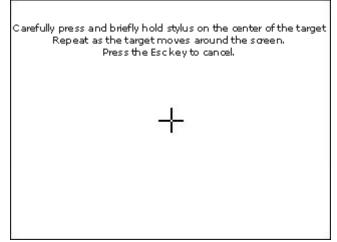


Fig. 50. CL-Touch Calibration Settings

Backlight This function defines the ON time for the backlight off CL-Touch is in the idle state. Tap checkbox Automatically turn-off backlight after and select the time from the Turn off after drop-down list box. Tap Apply button.



Fig. 51. CL-Touch Backlight Settings



Fig. 52. CL-Touch Backlight Settings

NOTE: The backlight timeout settings will survive a WIN CE update and power fail, but will be lost after a software update. After a software update of CL-Touch, the backlight timeout settings must be set again.

Language

English

The following languages can be selected online:

- Dutch
- German
- French
- Spanish
- Swedish
- Japanese
- NOTE: Before an additional language other than those listed above is available, the operation pages have to be translated into that language, and the CL-Touch software has to be updated accordingly.

Tap on the Selected Language tab, and then select the language from the Language drop-down list box. Tap the **Apply** button, and then tap the **Ok** button in the message box.

XL_800.Configur	ation.HMI.	Language		
/Select Langua	ge Backı	up/Restore 🔪		
				0
				20
Language	English	(United States)	-	
				0
		-		₩ ∆
Apply		Close		ME.
				Ó
			_	
₩) 🗡 🖂			\triangle

Fig. 53. CL-Touch Language Settings

NOTES: The selected language will survive powerfail and Windows a CE update. After a Windows CE update, the language setting will be reset to the English language. To avoid loosing the selected language, it can be backed up before the Windows CE update and restored after the Windows CE update.

If the CL-TOUCH needs to be replaced with a new CL-TOUCH, back up the language setting of the old CL-TOUCH to the USB stick, and then restore the language setting from the USB stick to the new CL-TOUCH.

To back up the language setting to the USB stick, select the Backup/Restore tab, and then tap the **Backup** button.

XL_800.Configuration.HMI.Language	
/Select Language Backup/Restore	
	•
	X
Backup	\bigcirc
Restore	\ ₩∆
	9
(;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	

Fig. 54. Back up Language

Expand the tree and select the Languages folder. Tap checkmark to save the file to the Languages folder.

Configuration.H	
XL-Touch	√ 🛛
	chBackupRestore nguages
Language:	English (United Stat 💌

To restore the language setting from the USB stick, tap the **Restore** button.

XL-Touch	V 🛛
	chBackupRestore nguages
Language:	English (United Stat 💌

Expand the tree and select the Languages folder where the backupped file is stored. Tap checkmark to restore the file from the Languages folder.

Clock This function allows changing the date and time setting of the CL-Touch MMI. The *Date* tab allows you setting the current date. Tap the **Date** drop-down list box and select the date. Tap **Apply** button t o set the new date



Fig. 56. CL-Touch Date Settings

The *Time and Time Zone* tab allows changing the current time of CL-Touch and selecting the time zone for the geographical location in reference to GMT in which CL-Touch is used. After setting the time and time zone, tap **Apply** button.

CONTROLLE	R_1.Configuration.HMI.Clock	
Date Tim	e & Time Zone	G
Time:	9:18:04 AM	×
Time Zone:	(GMT+01:00) Amsterdam, Berlit 💌	WA
A	oply Close	4
പ്പുകള്	0 % 🗖	

Fig. 57. CL-Touch Time Settings

Options The options screen allows modifying/changing settings for B-port, controller upload/download, Firmware delay and general settings of the CL-Touch.

CONTROLLER_1.Co	nfiguration.HMI.Options	
Ports Controller	(Firmware (General 🔪	- 6
BPort Baurate	9600	x
Serial Port	COM2	0
Switch to 3840	00 baud on connect	
Apply	Close	2
64 80 9	K 🖻	A

Fig. 58. CL-Touch Port Settings

On the the *Ports* tab, you can override the communication baud rate between CL-Touch and the controller by tapping the checkbox **Switch to 38400 baud on connect.** All communication between CL-Touch and the controller will communicate with this baud rate, if not checked then CL-Touch and the controller communicate on the baud rate set for the controller. Tap **Apply** button after doing any changes.

On the *Controller* tab, you can enable/disable the following settings:

CONTROLLER_1.Configuration.HMI.Options	
Ports Controller Firmware General UpLoad Stop controller during upload DownLoad Display LON interface change warning Set controller no. automatically Set bus baudrate automatically Set Bus Id automatically	• * • •
Apply Close	

Fig. 59. CL-Touch Controller Settings

- Stop Controller during upload/download If checked, the controller is stopped during when uploading or downloading an application
- Display LON interface change warning
- If checked, a warning is displayed when the LON interface has been changed. • Set Controller number automatically
- If checked, it is set as according to the current conditions
- Set bus baud rate automatically If checked, the default value is the factory setting
- Set Bus ID automatically If checked, it is set as according to the current conditions.

On the *Firmware* tab the intersection can be set for downloading the firmware file which is downloaded in sections into the controller. The firmware download has a fixed Intersection Delay. Enter the value in the **Intersection Delay** field.

CONTROLLER_1.Configu		-
Firmware Download		• * • • • •
Apply Input Panel	Close	
	5 7 8 9 0 - = •	

Tap Apply button.

NOTE: Firmware download via LON-Bus and C-Bus over LON is not possible.

On the *General* tab, tap the **Show all digits of Datapoint Values** checkbox, if you want to see all digits of datapoint values. Tap **Apply** button.

CONTROLLER_1.Config	uration.HMI.C	Options	
/Ports (Controller (Firr	nware VGen	eral	
			~
Show all digits of	DataPoint V	alues	
Apply	Clos	se	
67 63 11 63 11 11	~		

Fig. 61. CL-Touch General Settings

The eiter icon allows trending of datapoints (collection of historical datapoint value/status information).

Prerequisites

In order to use the trending function, the following prerequisites are needed:

- 1) USB memory device, like USB memory stick
- 2) The directory "TrendFiles" must have been created on the USB memory device.
- 3) At least 300 Mbytes free space on the memory device, i.e. for recorded trend data continuously over 24 hrs. If the memory device is full during recording the data will not be recorded from that point and you will loose that data.

Behavior when USB memory is disconnected during trending

When the USB memory device is detached while trending is active, trending will stop. Once a USB memory device is connected again, the desired datapoints have to be put into trend again.

Maximum number of points to be trended

At any time, a maximum of 20 points can be selected for a controller, and a maximum of 8 datapoints can be displayed simultaneously on the *Trend* Graph at the same time.

Trending after Power Fail and Windows CE update.

The trend settings of the active trend for the physically connected controller **before** the powerfail or Windows CE update will survive the WIN CE update and power fail. In these scenarios, trending will automatically continue afterwards with the same settings as before (selected datapoints, scales and colors). In case the controller application has been changed, the trending will **not** automatically restart.

After a software update of CL-Touch, the trend settings will be lost if they are not backed up before and restored after the software update.

- This is valid for the latest trend that had been active (when the CL-Touch had been connected to a local controller or to a bus-wide controller.
- For these cases, the trending has to be restarted manually.

The Trending screen displays five options on the initial New/Open tab. You can:

- create a new trending file
- open an already existing trend file
- close an existing open trend file.
- back up a trending file
 The trending files have a .htf extension and are stored in the TrendFiles folder on the memory device.
- restore a trending file

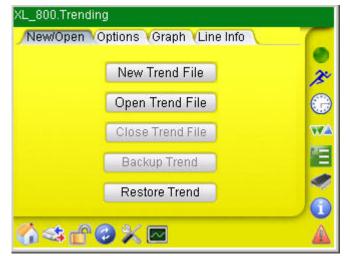


Fig. 62. CL-TOUCH General Settings

New/Open

Allows creating a trend file on the memory device on which the selected datapoint's data will be stored during recording. Initially this button is enabled and it gets disabled after opening a trend file. After tapping this button you are directed to enter a name for the file that is to be created on the memory device. You can then type in the name. Tapping on the 'tick mark' will open the file and tapping on the 'Cross Mark' will cancel the operation. On successful creation, the newly created trend file is opened by default.



Fig. 63. Creating a new trend file

Open Trend File

New Trend File

Allows opening any existing/newly created trend file present on the memory device. Initially this button is enabled and its get disabled after successful opening a trend file. If no file is open, then all the buttons on the *Options* tab are disabled. On tapping this button, a dialog box displays to select trend file from *TrendFiles* folder on the memory device.

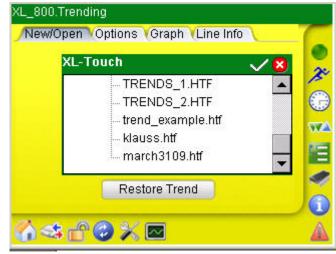


Fig. 64. Opening an existing Trend File

Close Trend File

Allows closing an existing opened trend file. Only available after the trending has been stopped.

New Trend File	3
Open Trend File	
Close Trend File	w
Backup Trend	
Restore Trend	

Fig. 65. Closing an open Trend File

To back up a trend file to the USB stick, tap **Backup** button.

).Trending.march3109 Open VOptions VGraph VLine Info	
XL-Touch V X HardDisk XLTouchBackupRestore)
Restore Trend	

Fig. 66. Back up Trend

Expand the tree and tap TrendSettings folder. Tap checkmark to save the file to the TrendSettings folder.



Tap **OK** in the message box to confirm the backup.

NOTES: After a software and/or Windows CE update, the trend file is backed up automatically on the hard disc.

If the CL-TOUCH needs to be replaced with a new CL-TOUCH, back up the trend file to the USB stick of the old CL-TOUCH, and then restore the trend file from the USB stick to the new CL-TOUCH.

To restore a trend file from the USB stick, tap **Restore** button.



Fig. 67. Restore Trend

Expand the tree and select the TrendSettings folder where the backupped file is stored. Tap checkmark to restore the file from the TrendSettings folder.

NOTES: After a software and/or Windows CE update, the trend file is restored automatically from the hard disc.

If the CL-TOUCH needs to be replaced with a new CL-TOUCH, back up the trend file to the USB stick of the old CL-TOUCH, and then restore the trend file from the USB stick to the new CL-TOUCH.

Options Start/Stop Recording

Starts the recording of datapoint values or stops the recording of values of all selected datapoints



Fig. 68. Start Recording

ew/Open	Options Graph Line Info	J
	Stop Recording	
	Select Datapoints	
	History	
	Data Export	

Fig. 69. Stop Recording

On tapping this button, recording will start or stop in background.

Select Datapoints

Allows selecting the datapoints that are to be recorded in trending. On selecting this button you are directed to the datapoint selection screen where you can select the desired datapoint by checking the checkbox for that particular datapoint and also changing its polling interval in the **Polling Cycle time** column. The polling time range varies from 1 second to 1 hour. You can also sort the datapoints according to name using the **Filter** field. After selecting the desired datapoint(s), tap **Start** button. The selected datapoints are saved and the *Graph* tab is set to recording mode. To display particular datapoints of the selected datapoints, go to the *Line Info* tab and select datapoints as described in the "Line Info" section.

Filt	er:	5	Show	
	User address	Point type	Polling cycle time	4
~	DaTemp	Analog input	1 sec	
~	MaTemp	Analog input	1 sec	
~	Oat_Temp	Analog input	1 sec	
	Ra_CO2_Level	Analog input	1 sec	
V	RmTemp101	Analog input	1 sec	-

Fig. 70. Selecting Datapoints for trending

NOTE: You have to go to the *Line Info* tab to select the datapoints to be displayed on the graph.

History

Shows the history of the recordings for the open trend file. The *Recording in File* tab shows the list of the recordings saved in that file from the time on when the file was created. The data is represented in two columns, **First Value** to **Last Value**. Tapping the **Ok** button forwards you to the *Graph* tab.

XL_800.Trending.History							
Recordings in File Datapoints in record							
First value	Last value						
8/26/2006 4:52:33 PM	8/29/2006 9:34:	43 AM	1. Se				
			\bigcirc				
			WA.				
I		•	1				
	ОК	Cancel	0				
৻৻৵ঀঢ়ঽৼ	3						

Fig. 71. Trending History

Similarly, the *Datapoints in record* tab shows the list of datapoints that have been added to the trend file from the time on when the file was created. The datapoints can belong to different controllers.

Data Export

Allows exporting the trend file in .csv format to the memory device. The *Recording* tab shows the list of recordings similar to the history screen. You can export a specific recording from this list by selecting the desired row and then tapping on the **Export** button, or export all the information by tapping the **Export All** checkbox and then tapping the **Export** button. You can also select the duration of the export data by choosing the appropriate date and times in the **From** and **To** combo boxes.

First valu	e	Lastiv	/alue			
3/31/200	9 11:00:29 AM	3/31/2	2009 12:16:4	8 PM		A
3/31/200	9 12:25:40 PM	3/31/2	2009 12:27:0)6 PM		0
3/31/200	9.10-05-40 PM	3810	000012-23-3		-	W
From:	3/31/2009	4 >	11:00:29	AM 🔺	Þ	10
To:	3/31/2009	4 >	12:16:48	PM 4	Þ	
Expor	tall	1	Export	Canc	el	0

Fig. 72. Data Export

NOTE: Depending on the number of trend records it can take several minutes until the *Data Export* screen is displayed after the **Data Export** button has been pressed. Below are two examples.

No. of trend records	*.htf Filesize	Time to display Data Export screen
22547	784 KB	2,5 Minutes
115 724	2,15 MB	6,5 Minutes

Similarly you can also export all the datapoints for the opened trend file using the *Datapoints* tab.

Da	atapoints				
🗹 Da	Temp				
✓ Ma	MaTemp				
	at Temp				-
From:	3/31/2009		*	11:00:29 AM	
Fo:	3/31/2009			12:16:48 PM	

On the *Separator* tab, you can select the separator (delimiter) to be used in the .CSV file.

XL_800.T	rending.marcl	h311	09.0	Data Export.march	3109
Record	lings (Datapo	ints	S	eparator	
Value Separators: ,					
From:	3/31/2009		►	11:00:29 AM 🔳	•
To:	3/31/2009		•	12:16:48 PM 🔳	•
Expor	tall		(Export Cance	el

Fig. 74. Data Export

All the exported information will be stored on the memory device in the *TrendFiles* folder. If this folder is not present on the device, you must create it. On tapping the **Export** button you are asked for the name of the file to be created so that the data of trending will be stored in *CSV* file format in the *TrendFiles* folder on the memory device. Enter the name of the file using input panel.

XL-Touch		
-	TAB_TEST.CSV	
	est_1000.csv	
	WER.CSV	
	march3109.csv	-
File name:	march3109.csv	

Fig. 75. Creating a file for Data Export

NOTE: Depending on the number of trend records the data export can take several minutes until the export complete message is displayed after the check mark is pressed. Below are two examples.

No. of trend records	*.htf Filesize	Time needed for Data Export
22547	784 KB	3 Minutes
115 724	2,15 MB	15 Minutes

On successful exporting the trending data from the controller to the specified location on the memory device, a message box displays which indicates the amount of data in terms of line values that has been written to the newly created file. Tap on the **Close** button to close the message box.

	ue lines have	
	essfully writter	-
to e	xport file.	
1	Close	

Fig. 76. Creating a file for Data Export

Graph

The *Graph* tab allows viewing the graphical presentation of the trended datapoint values selected on the *Line Info* tab (see description below) for the recorded duration. Initially when no trend file is opened, the screen displays 'No Data' in light green color on the background of the screen. During recording, the background text changes to 'Recording' and if the recording is stopped, then the background text is displayed as 'Stopped'.

You can display the vertical axis by tapping on any of the trend lines and then scroll down the axis according to your needs. In the same way, you can adjust the horizontal axis by just holding the stylus on any position on the X-axis and just dragging it according to your needs.

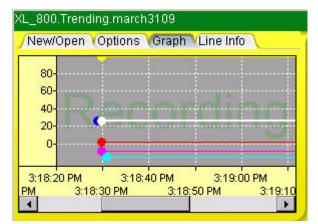


Fig. 77. Graph displays

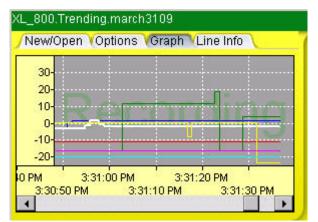


Fig. 78. Graph displays

To view the current value at a definite time, tap on the line to mark it, and then tap on the desired point of time. The value and the date are shown in a tooltip.

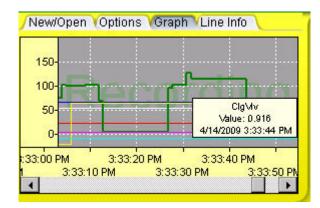
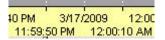


Fig. 79. Value displays of trend graph

When trend recording occurs over midnight, the date of the next day is shown on the X-axis.



If you want to view a particular datapoint, then go to the *Line Info* tab and tap the desired datapoint, and then switch back to the *Graph* tab to view that particular trend.

Line Info

Shows the selected datapoints (checked) that will be displayed on the *Graph* tab along with the value of the point, and the minimum and maximum scale values. You can vary the scale values by just tapping on them and entering the new values using the input panel.

	User address	Value	Min. scale	Max.
2	DaTemp	24.42	-25	100
2	MaTemp	17.41	-25	100
2	Oat_Temp	0	-25	100
	RmTemp101	0	-25	100
2	ClgVlv	0.916	-25	200

Fig. 61. Line Information

Alarms

Alarms can be checked by selecting the icon. Here you can view details of active alarms, alarm history, as well as bus-wide alarms.

Alarms cannot be acknowledged via the CL-Touch user interface, but only via a front-end, like EBI, SymmetrE etc.



Fig. 80. Alarms

Tapping the **Points in Alarm** button shows active alarms i.e. alarms that are currently active/on. Each alarm is displayed by Date, Time and Datapoint name. From the **Alarm Type** drop-down list box, you can tap alarms per severity (critical/non-critical) and system alarms.

	Date	Time	Datapoint
3	04/29/2008	10:08:03	CO2_MonitorInp1_01
3	04/28/2008	16:32:35	AL1_Alarminp101
1]	
l)et;	ails Alarr	n Type:	
l)et: ota		n Type:	

Fig. 81. Points in Alarm

To view more details about an alarm, tap the alarm in the list, and then tap **Details** button. The details show the alarm severity, controller that has generated the alarm, etc.

CONTROLLER_1.Alar	ms.Points in Alarms.Alarm De	etails
Time:	04/29/2008-10:08:03	6
Alarm text:	MAX 1 alarm	2
Datapoint	CO2_MonitorInp1_01	P
Datapoint value:	802. ppm	0
User text:	Don't breathe11	WA
Controller no.:	1	The second
Critical/Non-Critical:	Critical	
	Close	
৻৻ঽ৻ঀৢৢৢ৵		A

Fig. 82Alarm Details

You can view all the alarms that have been generated in the past using the **Controller Alarm History** button. The CL-Touch requires some time to access the history and hence displays the message 'Loading Alarm History' while retrieving history details. Tapping **Close** button in the message box allows proceeding to another screen if you do not want to wait the time while software retrieves the complete history from the controller. The message box will automatically disappear after the history loading is completed.

Maximum the last 99 alarms can be retrieved from the controller.



Fig. 83. Alarm History

In the *Alarms History* screen each alarm is displayed by Date, Time and Datapoint name. From the **Alarm Type** drop-down list box, you can tap alarms per severity (critical/non-critical) and system alarms. To view more details about an alarm, tap the alarm in the list, and then tap **Details** button. The details show the alarm severity, controller that has generated the alarm, etc.

	Date	Time	Datapoint 🔄 🗖
9	04/29/2008	10:08:03	CO2_MonitorInp1_01
3	04/29/2008	09:26:46	OA1_OATemp1(
×	04/29/2008	09:26:45	Critical
Δ	04/28/2008	17:39:23	Non-critical alue1_01
1			System
)eta	ails Alarr	n Type:	All 🔽 Close
ota	l: 15		

Fig. 84. Alarms History

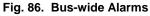
Time:	04/28/2008-17:39:23	0
Alarm text:	MIN 1 normal	2
Datapoint	AL1_MonitValue1_01	P
Datapoint value:	3. V	5
User text:	Text1	W
Controller no.:	1	PE-
Critical/Non-Critical:	Non-critical	
	Close	0
ഗ കനുമം		

Fig. 85. Alarm Details

Bus-wide alarms can be viewed by selecting the **Bus-wide Alarms** button from the Alarms screen. Bus-wide alarms are alarms generated from controller(s) that are not

physically connected to the CL-Touch but reside on the same network and are logically connected to it over the network.

Controller Name	Controller No.	<u>^</u>
PANTHER_1	1	
PANTHER_2	2	
PANTHER_3	3	
TIGER_EXP_5	5	
PANTHER_6	6	-
•		•
Details		Close
^		



In the *Bus-wide Alarms* screen, tap on the controller on the list of which alarms you want to see. Then tap **Details** button. In the following screen each alarm is displayed by Date, Time and Datapoint name. From the **Alarm Type** drop-down list box, you can tap alarms per severity (critical/non-critical) and system alarms.

	Date	Time	Datapoint
8	04/23/2008	11:01:42	HS1_BufUpperTmp_01
8	04/23/2008	11:01:42	HS1 SysFlowTemp 01
•	ails Alarr	n Type:	All Close

Fig. 87. Bus-wide Alarms List

To view more details about an alarm, tap the alarm in the list, and then tap **Details** button. The details show the alarm severity, controller that has generated the alarm, etc.

PANTHER_4Alar	m Details	
Time:	04/23/2008-11:01:42	6
Alarm text:	MIN 2 alarm	2
Datapoint	HS1_BufUpperTmp_01	P
Datapoint value:	-50.0 °C	\bigcirc
User text:	Text1	WA
Controller no.:	1	
Critical/Non-Critical:	Critical	
	Close	
6 🖘 🖻 🥝 🦻		A
Fig. 88. E	Bus-wide Alarms Details	

Information

Controller information can be viewed by tapping the icon. Information can be viewed in detail by tapping one of the following buttons:

- Details
- Application Status
- Application Parts

CONTROLL	ER_1.Information	
	Details	•
	Application Status	
	Application Parts	
∕}≪ d	P 🕗 🔀 🔤 👘	\triangle

Fig. 89. Controller Information screen

Information is only displayed and cannot be edited.

Details When tapping **Details** button, detailed information about the controller such as Country code, Controller name, Program name, Controller number, Current version of the firmware loaded on the controller, etc. is shown.

Country code Germany Controller name CONTROLLER_1 Program name CONTROLLER_1 Controller no. 1 Firmware Panther/Tiger-Version 2.06.1	escription	Value 🗠
Program name CONTROLLER_1 Controller no. 1	ountry code	Germany
Controller no. 1	ontroller name	CONTROLLER_1
	rogram name	CONTROLLER_1
Firmware Panther/Tiger-Version 2.06.1	ontroller no.	1
	rmware	Panther/Tiger-Version 2.06.1
۲ () () () () () () () () () (
Clos		Close

Fig. 90. Controller Information Details

Application Status

When tapping **Application Status** button, details of the application currently running in the controller is shown. The Value (status) of the application and application parts is either running or stopped.

Description	Value 🔼	
Application status	Running	
AppPart:Common value	Running	1
AppPart:Field IO	Running	¢
AppPart:Timeprogram	Running	v
AppPart:RACL	Running 🗾	E
•		N I
	Close	6

Fig. 91. Controller information Application Status

When tapping the Application Parts button, the screen shows the values (Value column) in number of RAM Bytes of all currently running application parts (Description column).

Description	Value	^
RACL application(ral)	3.1 - 19408 Bytes	
RACL Parameter(rap)	3.1 - 2400 Bytes	
RACL Z-Register(raz)	3.1 - 5728 Bytes	
RACL T-Register(rat)	3.1 - 208 Bytes	
ASPECD(adl)	3.1 - 12080 Bytes	-
•		•
		Close
	/	
ॎऻ≪ड़ऻॡऀॎॱॖ		

Controller

USER GUIDE

You can download/upload applications, download firmware to the controller and load

programs in the FLASH EEPROM tapping the **Controller** button The corresponding Controller screen provides the following functions:

- Application •
- Firmware Download
- Flash EEPROM



Fig. 93. Controller options

Application Tapping the **Application** button allows starting the actual application in the controller or stopping the application already running in the controller.

Start/Stop VUpload VDo	wnload 🔪	
pplication status	Halted	Start
ppPart:Common value	Stopped	Stop
AppPart:Field IO	Stopped	otop
AppPart:Time program	Stopped	
AppPart:RACL	Stopped	
AppPart:ASPECD	Stopped	
		Close

Fig. 94. Controller Application START/STOP

To start the application, tap the ${\bf Start}$ button, to stop the application tap the ${\bf Stop}$ button.

Upload tab

Applications can be uploaded from the controller using this tab.

NOTE: Alarm polling stops during application upload/download.

Prerequisite

A USB memory device must be inserted into the touch-panel.
 On that USB memory device the directory "ApplicationUploadFiles" must be present (to be created with Laptop or PC beforehand).

CONTROLLER_1.Controller.Application	
Start/Stop Upload Download	6
Select	
Upload	A C
And the second second	
Application:	WA
Status:	
Cancel Close	1
⋽⋞⋳⋳⋦⋈	$\mathbf{\Lambda}$

Fig. 95. Application Upload Screen

Initially the **Upload** button is disabled as no destination folder is selected. Tap the **Select** button and choose the destination folder.

×	(L-Touch		🗸 😣	
	- HardDisk Application	JploadFiles		C
App				V
Sta	ile name:			Ľ
_	incel		Close	4

Fig. 96. Target folder selection Screen

The folder *ApplicationUploadFiles* needs to be created on the USB memory device if it is not present, otherwise an already existing folder is shown. Tapping the 'tick mark' will select the folder and allows you to upload the files by tapping the **Upload** button.

Start/Stop Uplo	Controller.Application	6
	Select	0
	Upload	6
Application:	\HardDisk\ApplicationUploa	
Status:		
Cancel	Close	4
	37 —	

Fig. 97. 'Upload' enabled after selecting destination folder

Download tab.

Applications can be downloaded from the CL-Touch MMI using this tab.

NOTE: Alarm polling stops during application upload/download.

Prerequisite

1) A USB memory device must be plugged into the touch-panel.

2) On that USB memory device the directory "ApplicationDnloadFiles" must be present (to be created with Laptop or PC beforehand).

CONTROLLER_1.0		ation	-
Joran Stop	Select		•
	Download		A C
Application:			W
Status:]	
Cancel		Close	2
പ്പുന്നും	×		

Fig. 98. Application Download Screen

Tap the **Select** button and select the desired ".pra" file from the location on the CL-Touch. Then tap **Download** button to download the file to the CentraLine Family controller. The **Download** button is initially disabled as the target file is not selected. If the destination folder *ApplicationDnloadFiles* is not present on the USB memory device, an error pops up. Tap **Close** button in the message box and create the specific folder on the USB memory device.

CL-Touch	1	
	HardDisk\Applicati dFiles\ Directory n	
Sta	Close	
Cancel		Close

Fig. 99. Error message for destination folder

If the folder already exists on the drive, the screen as shown below is displayed. Tapping 'tick mark' selects the *.pra* file in the folder and enables the **Download** button. The 'wrong mark' will cancel the operation.

CONTROLLER_1.Controller.Applic	ation
XL-Touch HardDisk ApplicationDnload Sta	IFILES C
Cancel	Close 1

Fig. 100. Selection of Destination folder for download

	Select		
	Download		
Application:	Panther_Test.pra		1
Status:	-		
Cancel		Close	

folder

At any time during upload/download you can tap **Cancel** button to abort the upload/download. Tap **Yes** button in case you have start canceling the process and really want to abort the upload/download.

CL-T	ouch	
	Do you want to	abort upload?
App		
Sta	Yes	No
Cance	el	Close

Fig. 102. Cancel request confirmation

Firmware Download

You can view firmware details by tapping the **Firmware Download** button in the *Controller* screen.

NOTE: Firmware download via LON-Bus and C-Bus over LON is not possible.

Firmware tab

This tab gives information about the currently loaded firmware.

tem	Status	
Controller Type	Panther	
Application Board	XD50-FLS	
Flash Address	900000h	
Flash Size	2048 kb	
Ram Address	5E0000h	-

Fig. 103. Firmware Details

Tap **Close** button after viewing the firmware information.

Download tab

Prerequisite

 A USB memory device must be plugged into the touch-panel.
 On that USB memory device the directory "FirmwareDnloadFiles" must be present (to be created with Laptop or PC beforehand).

Here you can download the firmware into the controller. Tap **Select** button and choose the appropriate firmware file for downloading to the controller. If the destination folder *FirmwareDnloadFile* is not present on the USB memory device, an error pops up. Tap **Close** button in the message box and create this specific folder on the destination disk.



Fig. 104. Selecting file for Firmware Download

Tap the **Download** button to start the download.

After you have selected the firmware, the following screen shows the file path, the action currently being executed while downloading, the version of the firmware being downloaded and the overall status of the process.

Firmware Download File Path: \HardDisk\Firmwa Action: Switching to BSL m	
(HaldDisk(Pilliwa	
Action: Switching to BSL m	ireDnioa
	node
FW Version: 3.1.3	
Status:	
Select Download C	Close
৻৻৾৻ঽ৻ঀৣ৻৾৻ঢ়৻৾৻৻য়	

Fig. 105. Firmware Download

FLASH EEPROM

Tapping the FLASH EEPROM button in the *Controller* screen provides the following functions:

- Save the application to the FLASH EEPROM
- Erase the application from the FLASH EEPROM
- Load the application from the FLASH EEPROM



Fig. 106. Controller FLASH EEPROM options

When tapping the **Save Application** button, the current application is saved to the FLASH EEPROM. The following message is displayed after completion. Tap **Close** button in the message box.



Fig. 107. Saving Application to the FLASH EEPROM

When tapping the **Erase Application** button, all the applications on the FLASH EEPROM are erased. The following message is displayed after completion. Tap **Close** button in the message box.

CL-Touch	we Application
Era	asing application complete
	Close
-	Close

Fig. 108. Erasing Application from the FLASH EEPROM

When tapping the **Load Application** button, you can load an application from the FLASH EEPROM. The fixed applications available on the FLASH EEPROM are displayed. Tap the application you want to load in the list, and then tap **Load** button.

CONTROLLER_1	Load Applic	ation	
Application:	CONTROLLER	₹_1	C
Download time:	4/29/2008 11:5	5:23 AM	
Fixed Applications	E	9urn time	A
CONTROLLER_1	4	1/28/2008 1	0
			WA
			9
Load		Close	0
⊘⊲≎⊕©	× 🗠		

Fig. 109. Loading Application from the FLASH EEPROM

After successful loading of the application, a message window pops up indicating that the application has been loaded. Tap **Close** button in the message box.

CONTROLLER	R_1Load Application	
Application:	CONTROLLER_1	
Downloa CL-T	ouch	
Fixed App CONTROL	Load application complete	e e
	Close	
Load	Clos	
പ്പുക്ക് പ്ര	⊘ X ⊠	A

Fig. 110. Loading Application Complete

NOTE: After a power restoration, datapoints will be reloaded. Reloading is indicated with the Message 'Loading datapoints'.

The weight icon displays the datapoint information on the screen.

When the datapoints icon is tapped for the first time, CL-Touch requires some time to load all datapoints, and while doing so displays the message 'Loading Datapoints'. The message will automatically disappear after the datapoint loading is finished.



Fig. 111. Loading Datapoints

ilter: *	Show Po	int type:	ALL	-	
User address	Description	Value	Manual] 🛓	2
BL1 FlowTem	Boiler_1	<u>16.95</u>			P
BL2 FlowTem	Boiler_1	<u>30.55 °C</u>			0
CO2 Monito	CommonAlarm	978.26			W
HG1 FlowTem	Heating	<u>45.33</u>			
HG1 RoomTem	Heating	20.95			
HS1 SysFlow	HeatingS	52.33		-	G

Fig. 112. Datapoint screen

The column width can be adjusted by dragging the column separation line right or left

Sorting of lines can be done by tapping on the column header. Tapping the Manual column header sorts the lines according to the Manual status of the datapoints. The small arrow at the right side of a column indicates ascending or descending sort order.

ALL	•
Manual 📤	4

Fig. 113. Sorting Datapoints

The **Filter** field can be used to sort and view specific datapoints which you wish to view/change. For example, entering 'CO', all the points starting with 'co' will be displayed in the list. To filter for certain datapoint names, enter the desired string and then tap **Show** button.

CONTROLLER_	1.Datapoint				
Filter: CO*	Show Po	int type:	ALL	-	6
User address	Description	Value	Manual		2
CO2 Monito	CommonAlarn	<u>1041.7</u>			P
					0
					E
					4
					1
∕} ≪∂(≥×⊠				

Fig. 114. Filtered Datapoints

In addition to the filtering of datapoint names, the **Point type** drop-down list box allows filtering particular datapoint types according to the following table:

- Al Analog Input
- AO Analog Output
- DI Digital Input
- DO Digital Output
- AR Analog Remote
- AV Analog Value
- DR Digital Remote
- DV Digital Value
- CI Counter Input
- CV Counter Value
- FP- Flexible Point

Tap the Point type drop-down list box and select the datapoint type in the list.

Filter: *	Show Po	int type:	DO	-
User address	Description	Value	Manual	
BL1_Pmp1Cmd	Boiler_1	<u>0.00</u>		
<u>BL1 ST1</u>	Boiler_1	0.00		
BL2 Pmp1Cmd	Boiler_1	0.00		
BL2 ST1	Boiler_1	0.00		
HG1 Pmp1Cmd	Heating	0.00		
PR1 Chill	Pre-Control_1	0.00		-

Fig. 115. Filtered Datapoint Type 'DO'

A datapoint can then be selected and its details (attributes) can be viewed/changed by tapping the name in the **User address** column.

	Attribute	Value	Unit	
	Alarm status	Normal		
	Suppress alarm	Disabled		
,	Alarm text	1	Text1	
•	Alarm type 🛛 🧹	Critical	-	
2	Alarm delay	Non-critical Critical	Seconds	
2	Alarm hysteresis	2.00	°C	-

Fig. 116. Datapoint attributes

Attributes having a 'PEN' icon in the **Attributes** column, can be modified while attributes having a 'LOCK' icon cannot be modified. To change a value, tap the value column, select the new value, and then tap the 'tick mark' in the **Attribute** column.

NOTE: The sensor offset can not be changed.

	Attribute	Value	Unit	
ļ	Sensor offset 🧹	0.00	°C	
8	Point enabled	Enabled		3
۵	Alarm status	Normal		
1	Suppress alarm	Disabled		
1	Alarm text	1	Text1	
Pa	inel			
2] [w	ertyu	90-=↓ i0p[]	Cli	ose
	s d f g h j x c v b n r	<u> k ;</u> ' n , , / ←		A

You can also set an automatic datapoint value in hand. Tap in the **Value** column of a datapoint. In the *Value* dialog box, select the **Manual** radio button, enter the new value with the help of input panel, and then tap the **OK** button.

CONTROLLER_	_1.Datapoint	
Filter: *	Show Point type: ALL	
User addre Valu		~
BL1 FlowT	Auto	2
BL2 FlowT		J
CO2 Monito	Manual 16.95455 °C	
HG1 Flow1		
HG1 Room	OK Cancel	J
HS1_SvsFlow	HeatingS 52.33 °C	
``` ⇔ ` `(3 X 🖻 🔰 🚺	A

Fig. 118. Forcing manual values on Datapoints

Value Display at Disconnection

When the CL-TOUCH will be disconnected during operation, in the **Value** column asterisks are displayed instead of the actual values.

Value	

In order to display parameter texts, they have to be imported into the CL-Touch from an USB memory device.

Parameter texts can be imported for every controller on the bus. In order to import parameter texts for a bus-wide controller (not the locally connected one), you have to select the bus-wide controller, log into it, and then import the parameter texts for it.

CL-Touch can not import the same parameter.txt file into more than one controlller. Identical parameter.txt file names, e.g. from COACH applications, must be renamed on the USB stick before importing them into CI-Touch.

Parameter text files for the local controller and for the bus-wide controller must be backed up before a software update and restored after the software update to avoid a data loss.

NOTE: The Parameter Text Files for the physically connected controller and for all bus-wide controllers will survive a WIN CE update and power fail.

The **E** icon displays parameters of the connected controller. For each parameter the following properties are displayed:

- plant the parameter belongs to
- sub module of that plant
- · control loop used in the sub module
- position
- others

File	Plant	Submodule	Control Loop 📤
0			
1	Main_Plant	Switching Table	Heating_Coo
2	Main_Plant	Switching Table	Ventilator
3	Main_Plant	Switching Table	Heating_Pum
4	Main_Plant	Switching Table	Freze_Bulb
•			
Ba	ckup Res	tore Import info.	Parameters

Fig. 119. Parameters

Prerequisites

An USB memory device must be plugged into the touch-panel.
 On that USB memory device, the directory "ParameterFiles" must be present (to be created beforehand).

On the CARE PC, browse to the project folder and copy the parameter files (.txt) of each controller to the directory "ParameterFiles" on the USB memory device. If desired edit/translate the parameter files using a text editor.

Tap Import Information button.

Select the appropriate .*TXT* file from the list and tap the 'tick mark'. Tap the 'cross mark' to cancel the operation.

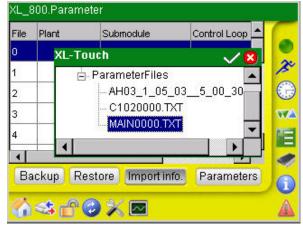


Fig. 120. Import Information

After selecting the file, the parameters will be loaded as the following screen shows.

File	Plant	Submodule	Control Loop 📤	1
0				
1	Main_Plant	Switching Table	Heating_Coo	3
2	Main_Plant	Switching Table	Ventilator	C
3	Main_Plant	Switching Table	Heating_Pum	W
4	Main_Plant	Switching Table	Freze_Bulb	5
•			•	
Ba	ickup Res	tore Import info.	Parameters	6

Fig. 121. Imported Parameters

To view the details of parameters of a parameter file, select the parameter file in the *Parameters* screen, and then tap the **Parameters** button. The screen displays all the parameters contained in the file with their number, description, values and the reference.

Parameters	of parameter file	e no. 3		(
Parameter	Description	Value	Reference	0
1	Internal use	0		3
2	Internal use	1		G
3	Output Val	3	0	W
•]			J → Close	
a a a				6

Fig. 122. Read Parameters

To back up a parameter text file to the USB stick, tap **Backup** button.

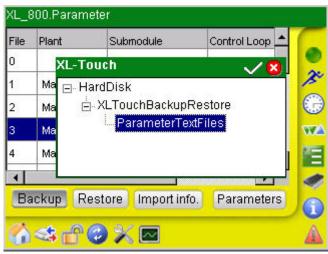


Fig. 123. Back up Parameters

Expand the tree and select the ParameterTextFiles folder. Tap checkmark to save the file to the ParameterTextFiles folder.

NOTE: If the CL-TOUCH needs to be replaced with a new CL-TOUCH, back up the parameter text file to the USB stick of the old CL-TOUCH, and then restore the parameter text file from the USB stick to the new CL-TOUCH.

To restore a parameter text file from the USB stick, tap **Restore** button.

0 XL-Touch ✓ X 1 Ma 2 Ma 3 Ma 4 Ma 4 Ma 8 Backup Restore Import info. Parameters	File	Plant	Submodule	Control Loop 📤
2 Ma BarameterTextFiles	0	XL-T	ouch	× 8
3 Ma ParameterTextFiles	1	Ma 🖃 H	lardDisk	
	2	Ma E		
	3	Ma	ParameterTe	xtFiles
Backup Restore Import info. Parameters	4	Ma		
Backup Restore Import info. Parameters	4			
	4			

Fig. 124. Restore Parameters

Expand the tree and select the ParameterTextFiles folder where the backupped file is stored.

Tap checkmark to restore the file from the ParameterTextFiles folder.

NOTE: If the CL-TOUCH needs to be replaced with a new CL-TOUCH, back up the parameter text file to the USB stick of the old CL-TOUCH, and then restore the parameter text file from the USB stick to the new CL-TOUCH.

Time Programs

NOTE: After a power restoration, time programs will be loaded. Reloading is indicated with the Message 'Loading time programs'.

The ^(j) icon allows accessing all time programs available in the connected controller.



Fig. 125. Time Program

To access a time program tap on the title of the time program in the list.

Overview	ER_1.Time Program.H /Daily Prog. Weekly P /29/2008 - Source: 1	rog. Hol
Display <a>Play	II> Active Da workday	ily Program:
Time	Point	Value
06:00	HG1_tsp01	20 °C
22:00	HG1_tsp01	15 °C
Today Ov	erride	Close
``` ≪\$∩'		

Fig 126. Time program Overview

Overview tab

This tab shows switchpoints of the time program valid on a day selectable in the **Date** drop-down list box. By tapping and selecting from the **Display points** dropdown list box, you can view all the points or filter them according to their type such as AI, AO, DI, DO, etc. The screen also shows the source of the time program and the used active daily program. For each switchpoint its Time, Point name and Value is shown in the table.

In order to override a switchpoint, check the corresponding checkbox in the first column of the switchpoint, and then tap the **Today Override** button. The *Today Override* screen is displayed.

Point	From Time*	To Time	Valu
HG1_tsp	12:59	12:59	▶ 0 °C
			-
			Þ

Fig. 127. Time program Today's Overrides

In the **From Time** and **To Time** columns, enter the dates defining the period of time for overriding the values of the time program. In the **Value** column, enter the override values.

Point		From Time*	To Time	Value
HG1_tsp	<u></u>	12:59	12:59	✓ 3
nel		_		
nel 3]4]5](8]9]0]-]		Þ

Fig. 128. Time program Today's Overrides

Tap the checkbox of the switchpoint in the first column. The switchpoint will only be overridden if the switchpoint is checked. Tap the Save & Close button.

Daily Prog. tab This tab shows the daily programs that are in use. You can create new daily programs, delete daily programs, and delete switchpoints of a daily program.

y Progran play point	n: workday s: <all></all>	▼ Nev	v Delete
Time	Point	Value	Optimize
06:00	HG1_tsp	20 °C	Off
22:00	HG1_tsp	15 °C	Off
lete Switc	hpoint(s)	Clo	ose

Fig. 129. Daily Time Program

Tap on the **Daily Prog**. drop-down list box and select the daily program of which switchpoints you want to view or delete.

Tap on the **Display Points** drop-down list box and select the point type (AI, AO, DI, DO, etc.) you want to display.

To create a new switchpoint, tap on the point field of the empty line at the bottom and select the desired point. Then, enter the desired time, value and optimization.

To delete switchpoints, tap the checkbox of the switchpoint you want to delete in the first column

Tap the Delete Switchpoint(s) button.

To create a new daily time program, tap the New button.

CONTROLLER_1New Daily Program	_
Daily program name: <mark><new></new></mark>	0
Copy time prog. from: workday 💌	0
Save & Close Cancel	
Input Panel	9
Esc 1 2 3 4 5 6 7 8 9 0 - = ♦ Tab q w e r t y u i o p [] CAP a s d f g h j k l ; '	
Fig. 130New Daily Time program	n

In the New Daily Program screen, enter the name in the Daily program name field.

Tap the **Copy Time Program From** drop-down list box and select an already existing time program that should provide the switchpoints for the new time program. Tap the **Save & Close** button.

To the delete a daily time program, tap the *Daily Prog.* tab Tap on the **Daily Prog**. drop-down list box and the select the daily program you want delete.

Tap the **Delete** button

NOTE: Before deleting a daily program, make sure that the daily program to be deleted is not referenced by any other time program. If it is referenced, you are not allowed to delete the daily time program.

To complete the deletion of a daily time program, tap **Yes** button in the following message box.

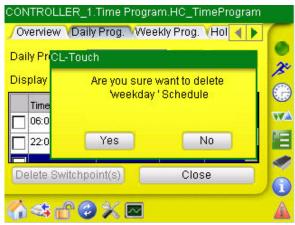


Fig. 131. Deleting Daily Time program

Weekly Prog. tab

This tab shows the time programs assigned to the days of the week. If you wish to change the time program for a particular day of the week, tap the **Daily Program** column for that day and choose the desired program from the drop-down list displayed. To save the changes, tap the 'tick mark'.

Overview V	Daily Prog. ₩ Veekly Prog. YHol 🧧	
Day of week	Daily Program	
Tuesday	workday	
Wednesday	workday	
Thursday	workday	
Friday 🧹	workday 💌	
Saturday	<default></default>	-
	workday	
	weekend	e
	Global	
1-6-6	weekday	

Fig. 132. Weekly Time program

Holiday Prog tab

This tab allows you to enable or disable the time programs scheduled for holidays in the year. The *Holiday Prog.* column shows the description, the *Daily Program* column shows the active time program for that day and the *Date* column shows the date of the holiday.

To change a daily program for a holiday, tap the holiday program, tap in the **Daily Program** column and select the desired daily program.

You must enable/disable a holiday program to override/not to override an existing time program on a particular day by tapping the **Enable** or **Disable** radio button for the selected holiday time program.

oliday Prog.	Daily Program	Date	
ew Year's Day		1/1/2009	
piphany		1/6/2009	
onday before Le	nt	2/23/2009	
hrove Tuesday		2/24/2009	
sh Wednesday		2/25/2009	-

Fig. 133. Holiday Time Program

Holiday Prog.	Daily Program	Date	
New Year's Day		1/1/2009	
Epiphany 🛛 🗸	′ –	1/6/2009	C
Monday before Ler	nt <not set=""></not>	2/23/2009	V
Shrove Tuesday	workday	2/24/2009	
Ash Wednesday	weekend Global	2/25/2009	
🔿 Enable 🛛 🔘	weekday	Close	

Fig. 134. Holiday Time Program

Yearly Prog. tab

This tab shows the time programs assigned for the weeks of the year, you can view the time period of maximum 12 weeks. Here you can also override the time program of a particular weekday by applying another time program.

loliday Pro	ig. V	Yea	irly P	rog.	1				
arting on:	4/2	9/20	008	• V	/eek	s: 1	-	Sho	Ν
Date	1		Apr	il 2	008		Þ	ŀ	•
4/29/200	S	M	Т	W	т	F	S		
4/30/200	30	31	1	2	3	4	5		
The second second	6	7	8	9	10	11	12		
5/1/2008	13	14	15	16	17	18	19		_
15/2/2008	20	21	22	23	24	25	26		•
erride with	27	28	29	30	1	2	3	Close	71
	4	5	6	7	8	9	10	01000	9. J

Fig. 135. Yearly Time Program

To define the time period, tap the **Starting on** drop-down list box and select the starting date of the week in the calendar.

Tap the **Shop** ... **Weeks(s)** drop-down list box and select the number of weeks the time period should have.

		i. VYearly Prog. 4/29/2008 🔻 W	eeks:	1 🔻	Shov	v
_	Date	Daily Program	Sou	1		
	4/29/2008	workday	vVe	3		
	4/30/2008	workday	٧Ve	4		۷
	5/1/2008	workday	vVe	12		
	5/2/2008	workday	We	ekly s		-
Ve	erride with:		-	Go	Close	0

Fig. 136. Yearly Time Program

To override the time programs for particular days in a week, tap the checkbox of the date in the first column. Tap the **Override with** drop-down list box and select the

daily time program which should be used for overriding the daily program displayed in the **Daily Program** column.

Tap Go button.

You can also override the active daily time program of a particular date by tapping the corresponding **Daily Program** column and selecting the daily program that should be used for the override.

Tap the 'tick mark' to save changes.

tai	rting on:	4/29/2008 👻 W	eeks: 1 💌 St	now
	Date	Daily Program	Source	6
~	4/29/2008	workday	Weekly s	
~	4/30/2008	workday	Weekly s	V
	5/1/2008	workday	Weekly s	
	5/2/2008	workday	Weekly s	-
ve	rride with:	weekday	👻 Go Clo	se

Fig. 137. Overriding daily programs in Yearly Time Program

a	ting on: 4	<not set=""></not>	ks: 1 🔽 Show
	Date	<default> workday</default>	Source
1	4/29/2008	weekend	Yearly schedule
7	4/30/2008	Global weekday	Yearly schedule
	5/1/200	weekday	Yearly schedule
1	5/2/2008	Global	Yearly schedule 💌
ve	rride with:	Global	Go Close

Fig. 138. Overriding daily programs in Yearly Time Program

Fast Access List Configuration

The *icon displays the Fast Access List (FAL) configuration view. A Fast Access List is a list of datapoints/time programs and parameters that you view and change most frequently. By default, the fast access list overview is the homepage of any CentraLine Family controller. Initially, no FAL is available and must be created.*

	List Of FALs				
	HOLIDAYS RECREATION AREA				
	FAL_Test	3			
	FAL_APRIL09 TRAINING				
*					
	Edit Delete Backup Restore	G			
1	<* 🕆 🕲 🗙 🖂	4			

Fig. 139. Fast Access List

To create a new FAL, you need to login with password level 3. Then tap the blank row and enter the name with the help of the input panel, then tap the 'tick mark' to save the new FAL.

×L_80		Access Lists (FALs			
	HOLIDAYS RECREATION AREA				
	FAL_Test FAL_APRIL09 TRAINING				
**~	ANA	Input Panel			
E	dit	Esc[!@]#\$%^^&*(())_ TabQWERTYUIOP CAPASDFGHJKL: ShiftZXCVBNM<>> Ctláü~	+ De {} ["] ? [+-] (+] →		

Fig. 140. Creating a Fast Access List

To remove a FAL, select the desired FAL by choosing the \blacktriangleright symbol in first column of the row, and then tap the **Delete** button. The row that contains a '*' symbol is the new row and can never be deleted.

To modify a FAL, tap the FAL in the list, and then select **Edit** button. The individual FAL screen is displayed.

	User address	Description
~	DaTemp	Discharge Air Temp
~	MaTemp	Mix Air Temp
	Oat_Temp	Outside Air Temp
~	Ra_CO2_Level	Indoor Air Carbo
	RmTemp101	Room Temp 101

Fig. 141. Add/Remove Datapoints to/from FAL

Datapoints tab

Here you can add datapoints to the FAL by tapping the corresponding checkboxes in the first column. Unchecking a datapoint removes the datapoint from the FAL. A FAL displays the user address and the description of a datapoint.

Tapping the **Save** button, saves the current selected datapoints and shows them in the FAL after tapping the **Close** button.

Time Program(s) tab

On this tab, you can add/remove time programs from/to a FAL.

	Time program
~	AHU1
	TimeProg1

Fig. 142. Add/Remove Time Programs to/from Fast Access List

On the Time Program(s) tab, check the checkbox in the first column of which time program you want to add to the FAL. Uncheck the checkbox in the first column of which time program you want to remove from the FAL.

Tapping the **Save** button, saves the current selected time programs and shows them in the FAL after tapping the **Close** button.

Parameters tab

On this tab, you can add/remove parameters from/to a FAL. You will first have to import the parameter file from the disk by tapping the Import info button (please refer to the previous "Parameters" section for detailed instructions). Then tap on the **File No.** drop-down list box and select the appropriate file number.

Check the checkbox in the first column of which parameter you want to add to the FAL. Uncheck the checkbox in the first column of which parameter you want to remove from the FAL.

/Data File No	2	Time Program(s) (Parameter(s))
	Parameter	Description
V	1	
	2	
	3	
•	0/	
		Save Close

Fig. 143. Add/Remove Parameters to/from FAL

To import parameter descriptions, tap on **Import Info** button, browse to the ParameterFiles folder, and then select the parameter file. Tap Check mark.

ParameterF	iles		
<mark>AH03_1</mark> C102000 MAIN000	DO.TXT	0.00	30
	JU. I X I		•

Fig. 144. Select Parameter File

The parameter descriptions are imported and displayed in the Description column.

/ Datap	ioint(s) VT	Time Program(s) VParameter(s)
File No	· 0 🔽	Import Info.
	Parameter	Description
	8	Input 6
	9	Hysteresis
	10	Input 2
•		.
		Save Close

Fig. 145. Import Parameter Information

Tapping the **Save** button, saves the current selected parameters and shows them in the FAL after tapping the **Close** button.

NOTES: Fast access lists for the physically connected controller and for all buswide controllers will survive a WIN CE update and power fail.

After a software update of the CL-Touch, the fast access lists will be lost, if they have not been backed up before and restored after the software update.

To back up a fast access list to the USB stick, tap **Backup** button. Expand the tree, browse to the FastAccessLists folder, and then tap checkmark to save the fast access list.

	XL-To	uab	st Of FALs		
		ucn		V 8	
F	⊟ Ha	rdDisk			
F	÷	XLTouch	BackupResto	ore	
7	T FastAccessLists				
	۵.				
6					

Fig. 146. Back up Fast Access List

Confirm message box by tapping **OK** button.



To restore a fast access list from the USB stick, tap **Restore** button. Expand the tree, browse to the FastAccessLists folder, and then tap checkmark.

List Of FALs			
H <mark>XL-T</mark>	ouch		2 8
F 🖃 H	lardDisk		
F	- XLTouch	BackupRest	ore
т	FastA	ccessLists	
A			
P			
Edit	Delete	Backup	Restore
	F E. H	F BastA	F HardDisk F HardDisk T FastAccessLists

Fig. 147. Restore Fast Access List

If a message box displays stating of invalid files that are not copied, tap **Yes** button to view them.

In the message box next displayed, read the information about the invalid file. A file can be invalid if the application does not match the parameter .TXT file, for example. If you want to verify the parameter.txt file, tap **Yes** button, otherwise tap **No** button.

If a message box displays stating to overwrite an existing fast access list (*.XML* file), tap **Yes**, respectively **YesToAll** button to overwrite the fast access list.

ite FAL_2	
100	

Confirm the restore by tapping **OK** button in the final message box.

CL-Touc	h	
	Restoration of FALs successful	
	OK	

NOTES: After a software and/or Windows CE update, the fast access list is restored automatically from the Flash memory of the CL-TOUCH.

If the CL-TOUCH needs to be replaced with a new CL-TOUCH, back up the fast access list to the USB stick of the old CL-TOUCH, and then restore the fast access list from the USB stick to the new CL-TOUCH.

Power-fail, Software update and WIN CE behaviors - for a physically (local) connected Controller

	After power-fail	After software update	After WIN CE update
Trend settings of active trending (selected datapoints, graph colors, datapoint scaling)	Are the same as before. Trending will re-start automatically.	Are lost. Must be backed up and restored. Trending must be re-started.	Are the same as before. Trending will re-start automatically.
Fast Access Lists	Are the same as before.	Are lost. Must be backed up and restored.	Are the same as before.
Parameter Files	Are the same as before.	Are lost. Must be backed up and restored.	Are the same as before.
Language selected	Are the same as before.	Are the same as before.	Default=English. Must be backed up and restored.
Backlight time-out settings	Are the same as before.	Must be set again.	Are the same as before.

Power-fail, Software update and WIN CE behaviors - for a bus-wide connected controller

	After power-fail	After software update	After WIN CE update
Trend settings of active trending (selected datapoints, graph colors, datapoint scaling)	Are lost. Must be backed up and restored. Trending must be re-started.	Are lost. Must be backed up and restored. Trending must be re-started.	Are lost. Must be backed up and restored. Trending must be re-started.
Fast Access Lists	Are the same as before.	Are lost. Must be backed up and restored.	Are the same as before.
Parameter Files	Are the same as before.	Are lost. Must be backed up and restored	Are the same as before
Language selected	Are the same as before.	Are the same as before.	Default=English. Must be backed up and restored.
Backlight time-out settings	Are the same as before.	Must be set again.	Are the same as before

OPERATE EXCEL WEB

Home Page Description and Basic Functions

Home Page Description

The Home page provides the following functions:

Status information

- Login (are you logged in or logged out)
- Current context (to which controller are you currently connected, its project name and plant name)

Operating icons

By tapping on the corresponding operating icon with the stylus or finger you can operate the selected controller (context) according to your needs (see "Operating Icons" section for a brief description of each operating icon and refer to the corresponding sections that describes the functions in more detail).

Login status			
You are not logged	in		
<u>Click here to login</u>	Ê		C
Current context			
You are connected	to		
Project: LuBO8			5
Controller: ExcelWe	b		
Plant: All			
			1
Click here to change	<u>e context</u>	~	6

Operating Icons

Horizontal Icon Bar	Icon Name	Function
	Home	Displays the Home page
1	Bus-wide	Allows accessing any controller on the
	Switch Context	bus
<u>A</u>	Login / Logout:	Allows logging in/logging out to/from a controller with specific access level
	Refresh	Refreshes (updates) the actual screen
THE OWNER OF	Datapoints in Hand	Shows the list of datapoints that have been set to hand

Mar 1	Datapoints in Alarm	Shows the list of datapoints that are in alarm
×	Configuration	Allows setting/changing the configuration of CL-Touch and the controller (e.g. display, table sort order, date and time, and others).
	System Alarms	Allows selection of a different controller and a different plant in order to show their number of alarms (new/total) and alarm status
9	Alarms	Shows the number of alarms (new/total) and the alarm status in the currently connected controller and plant.
		Indicates current alarm status:
		Blinking red = new and unviewed alarms exist
		Constantly red = alarms have been viewed but alarm conditions still exist
		Constantly green = no alarm conditions exist
Vertical Icon Bar	Icon Name	Function
Vertical Icon Bar	Icon Name Fast Access Lists	Function Displays fast access lists, i.e. a quick view of datapoints and parameters
Vertical Icon Bar		Displays fast access lists, i.e. a quick
Vertical Icon Bar	Fast Access Lists	Displays fast access lists, i.e. a quick view of datapoints and parameters Allows creating, changing and deleting fast access lists,
Vertical Icon Bar		Displays fast access lists, i.e. a quick view of datapoints and parameters Allows creating, changing and deleting
Vertical Icon Bar	Fast Access Lists	Displays fast access lists, i.e. a quick view of datapoints and parameters Allows creating, changing and deleting fast access lists, Allows viewing, creating, changing and
Vertical Icon Bar	Fast Access Lists Time program Schedules	Displays fast access lists, i.e. a quick view of datapoints and parameters Allows creating, changing and deleting fast access lists, Allows viewing, creating, changing and deleting schedules Allows viewing, creating, changing and
Vertical Icon Bar	Fast Access Lists Time program Schedules Datapoints	Displays fast access lists, i.e. a quick view of datapoints and parameters Allows creating, changing and deleting fast access lists, Allows viewing, creating, changing and deleting schedules Allows viewing, creating, changing and deleting datapoints Allows viewing, creating, changing and
Vertical Icon Bar	Fast Access Lists Time program Schedules Datapoints	Displays fast access lists, i.e. a quick view of datapoints and parameters Allows creating, changing and deleting fast access lists, Allows viewing, creating, changing and deleting schedules Allows viewing, creating, changing and deleting datapoints Allows viewing, creating, changing and

Basic Functions

Entering Data (Characters)

You can enter characters by tapping the corresponding keyboard keys.

Tapping	results in
NUM key	toggling the keyboard between letters and numbers display
CAPS key	toggling the keyboard between capital and small letters display
Red X key	emptying the entry field
BACKSPACE key	deleting the characters in the entry field, beginning from the right end side.



Modifying Data

Data can be modified by tapping the appropriate buttons, such as **New**, **Delete**, **and Copy** etc.

Saving Data

Saving and discarding changed data is handled by using the following buttons (dependent on the dialog):

SUBMIT/ OK

Saves changes done in the current dialog

CLOSE / CANCEL

Discards changes done in the current dialog

Refreshing (updating) Data

A manual instant refresh of the data can be done by tapping the *Refresh* icon

Page Display By selecting a specific page number in the drop-down list box, you can display certain pages.

Name	Value/Unit	Status	Туре
Lichtausgang	AUS	Normal	BO
Lichtsollwert	1000.00 lux	Normal	AV
_ux_We…isensor	0.00 %	Low Limit	AI
BIG1_Hreigabe	EIN	Normal	BV
BIG1_HM_Frost	Normal	Normal	BI
Details	Close	Page 1 💌	

Login to CL-Touch

Prerequisites	The CL-Touch device must be physically connected to the controller as describe under " ".	d
Procedure	1. On the <i>Home</i> page, tap on Click here to login or tap <i>Login</i> icon 🔠.	
	Hol Favorites Center (Alt+C) View favorites, feeds, and history You are not logged in Click here to login Current context You are connected to Project: LuB08 Controller: Plant: Click here to change context	

🕼 🐟 A 🕲 👒 🖏 🗶 🛕

RESULT: The Login screen displays.

Keller.	All.Log	gin								
L. L	Jser:			Gue	st		-			20
F	asswo	rd:		Gue: Syste	st emAdi	min				0
9	w	e		t	У	u	Ŀ	•	P	9
a	5	٩	f	9	h	Ŀ.	k			W2
z	×	c	v	Ŀ	•				X	旧
Ca	ips	Nu	Im			á	øü		?	
	ок			Cano	el					i
6	-	A	0		π <u>α</u> ,		1	4		

- 2. In the **User** field, enter your user name.
- 3. In the Password field, enter your password.
- 4. Tap OK button.
 - RESULT: By default, after login, the *Fast Access Lists* overview screen displays (see "Fast Access Lists" section).

Name	Туре	2
3rd Party devices	Points / Parameters	_
Datapoints	Points / Parameters	
		V
Modify	New	6
Show	Delete Page 1 💌	

Logout from CL-Touch

Procedure 1. Tap Login / Logout icon 👚.

Change Context

Prerequisite The CL-Touch device must be physically connected to the controller you want to access, as described in the mounting instruction MU1B-0387GE51.

- **Procedure** 1. On the *Home* page, tap on **Tap here to change context** or tap *Switch context* icon.
 - RESULT: The *Change Context* screen displays. The title line displays the currently connected controller.

Controller:	!!! ExcelWeb !!!		1
Plant:	<all></all>	•	6
			-
			2
			1
ок	Cancel		

- 2. In the Controller drop-down list box, select the controller you want to access.
- 3. In the **Plant** drop-down list box, select the plant of the controller you want to access.
- 4. Tap OK button.

Configuration

Configuring the CL-Touch, includes the following settings:

- Display
- Sort Orders
- Cycle Time
- LON Statistics
- Date& Time
- User Administration
- Communication



For operation procedures, please refer to the following subsections.

The Configuration screen displays.

Configure Display

Procedure 1. In the horizontal operating icon bar, tap the *Configuration* icon.

RESULT:

LuB08.ExcelWeb.All.Configuration

 Display
 Date & Time

 Sort Orders
 User Administration

 Cycle Time
 Communication

 LON Statistics
 Image: Communication

 Image: Communication
 <td

2. Tap Display button.

RESULT: The Display screen displays.

		Z
Refresh:	30 sec 💌	
Display Langu	age: English 💌	VVZ
		E
ок	Cancel	1

- 3. From the **Refresh** drop-down list box, select the refresh time. The refresh time defines the period after that the CL-Touch screens are refreshed (updated).
- **4.** From the **Display Language** drop-down list box, select the language in which the CL-Touch screens are displayed.
- 5. Tap OK.

Configure Sort Orders

Configuring sort orders includes the setting the sort order for the display of the following lists:

- Datapoints
- Schedules
- Alarms
- Users

Procedure

1. In the horizontal operating icon bar, tap the *Configuration* icon.

RESULT: The Configuration screen displays.

Display	Date & Time
Sort Orders	User Administration
Cycle Time	Communication
LON Statistics]

2. Tap Sort Orders button.

RESULT: The Sort Orders screen displays. The Datapoints tab is selected by default.

Datapoir	nts (Sche	dules (Alarms	Users	30
First by:	Name	•	Ascending	•	\bigcirc
Then by:	Туре	-	Ascending	-	W
Then by:	<none></none>	•	Ascending	•	阳
Submit	-	Close	_		i

You can set the sort order priority of 3 columns and for each column you can define the type of sorting (ascending or descending).

- **3.** From the **First by** drop-down list box, select the column that should have the highest priority.
- 4. From the first **Then by** drop-down list box, select the column that should have the secondly highest priority.
- 5. From the second **Then by** drop-down list box, select the column that should have the third highest priority.
- 6. Tab **Submit** button, and then tab **Close** button, or tab the *Schedules*, *Alarms* or *User* tab for setting those sort orders.
- 7. For setting the sort order of Schedules lists, tap the Schedules tab.



- 8. Select whether the schedules lists should be sorted By Schedule Name or By Switched Property.
- 9. Tab **Submit** button, and then tab **Close** button, or tab the *Alarms* or *User* tab for setting those sort orders.

10. For setting the sort order of *Alarms* lists, tap the *Alarms tab*.



- **11.** Set order for alarms lists in the same way as described for the datapoints in steps 3 through 5.
- **12.** Tab **Submit** button, and then tab **Close** button, or tab the Users tab for setting those sort order.

First by:	User Name	-	Ascending	-	
Then by:	<none></none>	-	Ascending	-	V
Then by:	<none></none>	•	Ascending	•	8

- **13.** Set order for users lists in the same way as described for the datapoints in steps 3 through 5.
- 14. Tab Submit button, and then tab Close button.

Configure Cycle Time

The cycle time category defines the (target) time in ms after a control loop is restarted automatically.

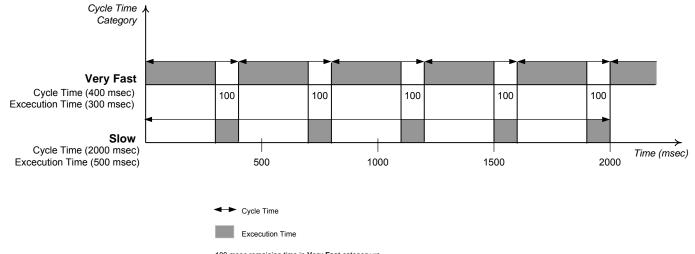
Target cycle times are grouped in the following categories with descending priority:

- Very Fast.
- Fast
- Medium
- Slow

In other words, a control loop which has the very fast category assigned, is executed more often in the same time.

Each control loop is assigned to one of these categories. Any changes done to the target cycle time will affect all control loops assigned to the corresponding category.

The controller executes multiple control loops simultaneously (multitasking). There is a dynamic relation between the target cycle time categories as shown in the following diagram:



100 msec remaining time in **Very Fast** category => 500 msec execution time in **Slow** category

The diagram illustrates, that the degree of execution of a control loop having a slow cycle time category assigned, depends on the remaining time (=cycle time minus execution time) provided by a control loop executed in very fast cycle time.

The target cycle time should not be exceeded during control loop execution. If a category's execution time is permanently greater than the corresponding target cycle time, the controller is overloaded and the target cycle time should be changed by increasing it to higher values than the execution time.

IMPORTANT

It is recommended to set the cycle times to values to between 30 % and 50 % higher than the execution times in order to make sure that control loops having medium and slow cycle times assigned can be executed in appropriate time.

NOTE: The settings done in the CL-Touch will be overwritten after a download with CARE. Hence, upload the application into CARE using XW Online after the plant has been setup.

Procedure

RESULT: The Configuration screen displays.

1. In the horizontal operating icon bar, tap the *Configuration* icon.

LuB08.ExcelWeb.All.Configur	ation	
Display	Date & Time	20
Sort Orders	User Administration	
Cycle Time	Communication	
LON Statistics	1	
		E
		1
G 🐟 🖰 😳	A X A **	0

USER GUIDE

2.

Tap Cycle Time button.

Category	: Target	Time (ms	Actual	Time [ms]	Adaption
/ery Fast	250		0		Г
Fast	1000		0		Γ
Medium	5000		39		Г
Slow	10000		0		Г
0	1 2	3	4 ±		
5 (6 7	8	9 .	1 X	
Subm			lose		

RESULT: The Cycle Time Categories screen displays.

- **3.** Change cycle times according to your needs.
- 4. Tab Submit button, and then tab Close button.

View/Reset LON Statistics

You can view various statistical values of LON failures, errors, and messages.

- **Procedure 1.** In the horizontal operating icon bar, tap the *Configuration* icon.
 - RESULT: Th
 - The Configuration screen displays.



- 2. Tap LON Statistics button.
 - RESULT: The LON Statistics screen displays. It shows current statistical values of e.g. message transmission and errors, collisions, etc.

Property	Current Value	2
TransmissionErrors	0	2
TransmitTXFailures	0	6
ReceiveTXFull	0	
LostMessages	0	V.
MissedMessages	0	
Layer2Received	5	
Layer3Received	0	
		6
Reset All C	lose Page	1 🗸

- **3.** To reset all values, tap the **Reset All** button. Note that single values cannot be reset.
- 4. Tab Close button.

Configure Date & Time

Configuring date and time includes the system-settings:

- Date
- Time
- Time zone

Procedure

1. In the horizontal operating icon bar, tap the *Configuration* icon.

The Configuration screen displays.

RESULT:

Display	Date & Time
Sort Orders	User Administration
Cycle Time	Communication
LON Statistics	

2. Tap Date & Time button.

RESULT: The Date / Time screen displays.

Date	& Tim	е (Т	ime Zo	ne				_
urre	nt: 04	/ 28 /	2008		12	22	55	7
lew:	04	/ 28 /	2008		12	22	45	4
								1
0	1	2	3	4	Ð	B		
0	1	2	3	4	٥			

On the *Date & Time* tab, the actual date and time are displayed in the **Current** line.

- **3.** To change the system date, enter the new system date in the fields 1 through 3 in the **New** line.
- **4.** To change the system time, enter the new system time in the fields 4 through 6 in the **New** line.
- Tap Submit button, and then tab Close button, or tap *Time Zone* tab to view the time zone.
 On the *Time Zone* tab, current time zone is displayed on the top, and cannot be changed.

In order to change the time zone, the large web-interface (800x600 web-pages) or CARE must be used.

NOTE: The large (800x600) web-interface can be accessed with any Laptop or PC with at least 800x600 resolution, by using the Internet Explorer or Mozilla browser.



View / Configure Communication Settings

Communication settings include the following:

- Interface settings for serial ports, Ethernet, LON, Modem and Web-Server, such as baud rate, IP address, neuron chip ID, automatic logout time of web server
- Modem Settings such as serial port baud rates for Browser access via modem.
- **Procedure** 1. In the horizontal operating icon bar, tap the *Configuration* icon.

RESULT: The Configuration screen displays.

Display	Date & Time
Sort Orders	User Administration
Cycle Time	Communication
LON Statistics	

2. Tap Communication button.

RESULT:

The Communication screen displays.

			2
Interfa	ace Setting	gs	0
Mode	m Setting	s	W
Close	1		
			0

- To view/configure interface settings, tap Interface Settings button. To view/configure modem settings, tap Modem Settings button (continue with step 11).
 - RÉSULT: When tapping Interface **Settings** button, the *Interface Settings* screen displays. By default, the *Serial Ports* tab is selected.

Serial Ports VEtherner	t 1 Ethernet 2	LON Web	3
Serial Port 3 Baudrate:	115200	¥.	C
Serial Port 2 Baudrate:	115200	Y	W
			T
			-

- 4. Serial Port 3 Baudrate and Serial Port 2 Baudrate is read only and cannot be changed.
- 5. To view Ethernet settings, tap Ethernet 1 tab.

In order to change Ethernet settings, the large web-interface (800x600 webpages) or CARE must be used.

NOTE: The large (800x600) web-interface can be accessed with any Laptop or PC with at least 800x600 resolution, by using the Internet Explorer or Mozilla browser.

Name:	xlwe	b						
Jse this IP Adress	for LA	N A	looes	s				
IP Adress:	192].	168		1	30		
Subnet Mask:	255	١.	255		255	0]	
Gateway Adress:	0		0		0	0		

The following properties are shown:

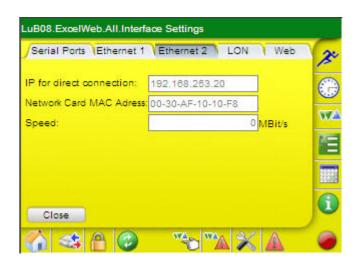
Host Name Displays the name of the host (server).

Use this IP address for LAN Access

The IP address has been explicitly allocated in CARE.

- IP address
- Subnet mask
- Gateway address

6. To view further Ethernet settings, tap Ethernet 2 tab.



The following properties are shown:

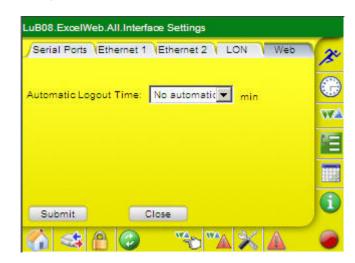
- IP for direct connection (through crossover cable)
- Network Card MAC Address
- Speed (not used as of now)
- 7. To view LON settings, tap LON tab.

Serial Ports (Ether	net 1 Ethernet 2 LON	Web	2
Neuron Chip ID:	04-e8-e2-51-02-00		
Subnet-	0_0		0
Node Adress Domair Subnet-			we
Node Adress Domair	1: 0 - 0		1
			-
			1111
			C

The following properties are shown:

- Neuron Chip ID Neuron ID of the controller.
- Subnet-Node Address Domain 0 Subnet/node address of domain 0 as defined in CARE
- Subnet-Node Address Domain 1 Defaults to zero.

8. To set the logout time, tap Web tab.



- **9.** From the **Automatic Logout Time**, select the time for logout of the web server. The automatic logout time is the time of inactivity after you are automatically logged out and be redirected to the Login dialog.
 - NOTE: The automatic logout time applies to the controller, not to just to the user. This means, that the current time set for the controller applies to all users which are currently logged in and access the controller.
- 10. To save changes, tap Submit button, and then tap the Close button.
 - RESULT: The Communication screen redisplays.
- 11. To view modem settings, tap *Modem Settings* button.

In order to change Modem settings, the large web-interface (800x600 web-pages) or CARE must be used.

- NOTE: The large (800x600) web-interface can be accessed with any Laptop or PC with at least 800x600 resolution, by using the Internet Explorer or Mozilla browser.
- RESULT: The Modem Settings screen displays. By default, the Dial-In tab is selected. The dial-in settings are controller related.
- 12. Tap Close button, or to view/edit further modem settings, tap Modem tab.

Dial-In V	Modem	20
Modem:	Serial Port 3	
User Name:	xwadmin	
Password:	******	
		E
Close		1

NOTE: The dial-out via modem is not supported as of now, which means that the settings displayed have no effect and cannot be used to date.

The dial-out settings displayed, are:

- Wait for Dial Tone Defines whether the controller should wait for a dial tone (YES) or not (NO) before dialing
- Dial Method Defines the method, tone or pulse dialing
- Loudspeaker Defines whether the modem speaker should be switched ON or OFF
- Additional Command String A string entered here, is sent to the modem whenever the communication watchdog is started and before each dial-out attempt.
- Idle Time before Hang-up Defines the time of inactivity in sec. after which the modem hangs up.
- 13. Tap Close button.

User Administration

Invoke User Administration

- **Procedure** 1. In the horizontal icon bar, tap the *Configuration* icon, and then tap the User Administration button.
 - RESULT: The *All.User Adminstration* screen displays. For each user, the following properties are shown:
 - User Name
 - Access Level

Users can be newly added, edited and deleted. In addition, your password can be changed. By default, the SystemAdmin and the Guest users are already available.

On the Access Rights tab, the access rights for all users will be defined by assigning the predefined user levels to the executable functions (see Create Access Rights section).

User Name	Access Level	2
Guest	Guest (0)	
9	System Administrator (128)	E
SystemAdmin	System Administrator (128)	0
		W
Add	Edit	

Create Access Rights List

NOTE: Only a user who has System Admin or Project Admin user level can create or edit access rights. The System Admin level is automatically assigned to the user who has created the project initially in CARE.

Procedure 1. Select the Access Rights tab.

2. To each function described in the *Description* column, assign the appropriate user level by selecting it in the corresponding line in the user's *Level* column.

Note that the user levels are arranged hierarchically with the following sequence of descending priority:

- System Administrator (128) = highest priority
- Project Administrator (115)
- Building Engineer (96)
- Operator (64)
- Tenant (32)
- Guest (0) = lowest priority
- 3. Tap Submit button to save settings.
- 4. To create a new user, continue as described under the "Create User" section.

Add User

NOTE: Only the user who has System Admin user level can add users, edit, or delete existing users.

Procedure 1. In the *All.User Adminstration* screen, tap the **Add** button.

Login	Settings		-0
User Name:	Mr. Bluelight		6
Password:	•••••		4
Confirm:	•••••		V
Access Level	Coperator (84)	1	P
ок	Cancel		

- 2. On the Login tab, enter the name of the user in the User Name field.
- 3. In the Password field, enter the password for the user.
- 4. In the Confirm field, confirm the new password by entering the password again.

5. From the Access Level drop-down list box, select the user level.

Note that user levels are arranged hierarchically with the following sequence of descending priority:

- System Administrator (128)
- Project Administrator (115)
- Building Engineer (96)
- Operator (64)
- Tenant (32)
- Guest (0)

Due to the access rights list definitions (see "Create Access Rights" section), this assignment automatically determines the set of access rights, which the user is allowed to execute in the CL-Touch.

6. Tap Settings tab.

-	-	15
Prefered Language:	English 💌	E.
Date Format:	04/28/2008	0
Fime Format:	12:34:56	W
Decimal Places:	2	1
ок	Cancel	

7. From the **Preferred Language** drop-down list box, select the language in which the CL-Touch should be displayed for the user. If information is not available in the user's preferred language, the controller will send the information in the default language, defined in CARE. After logging in, the CL-Touch is displayed in the user's preferred language.

Date Format

Displays the date format. It may be either dd.mm.yyyy or mm/dd/yyyy. The controller stores the date format along with the language setting.

Time Format

Displays the time format. The controller stores the time format along with the language setting.

- 8. From the **Decimal Places** drop-down list box, select the number of decimal places for the display of values.
- 9. Tap OK button to save settings.

Edit User

- NOTE: Only the user who has System Admin user level can create new users and edit or delete existing users. The user name cannot be changed.
- **Procedure** 1. In the *All.User Adminstration* screen, tap the user you want to edit.

RESULT: The .User Adminstration.Edit screen displays.

2. Tap the Edit button.



- 3. If desired, change the password by tapping the **Browse** button right to the **Password** field. Enter the new password.
- 4. Enter the new password, and the tap the **OK** button.
- 5. Tap the **Browse** button right to the **Confirm** field. Enter the new password again.
- 6. If desired, change the user level by selecting another level from the Access Level drop-down list box.

When changing the user level, note the sequence of descending priority of user levels:

- System Administrator (128)
- Project Administrator (115)
- Building Engineer (96)
- Operator (64)
- Tenant (32)
- Guest (0)

If the user level has been changed, you should note the current access rights definitions on the *Access Rights* tab in the user's *administration* dialog box.

- 7. If desired, change the user level by selecting another level from the Access Level drop-down list box.
- 8. If you want to change the preferred language and/or decimal places, tap the Settings tab.
- **9.** If you want to change the preferred language and/or decimal places, tap the *Settings* tab.

_

SL-TOUCH		USER GUIDE
	10.	To change the language in which the CL-Touch should be displayed to the user, select another language from the Preferred Language drop-down list box. If information is not available in the user's preferred language, the controller will sent the information in the default language, defined by the CARE engineering tool. After logging in, the CL-Touch is displayed in the user's preferred language.
		Date Format Displays the date format. It may be either dd.mm.yyyy or mm/dd/yyyy. The controller stores the date format along with the language setting.
		Time Format Displays the time format. The controller stores the time format along with the language setting.
	11.	To change the number of decimal places for the display of values in the CL- Touch, select another value from the Decimal Places drop-down list box.
	12.	Tap the OK button to save settings.
	User Data Synchronization	When the Excel Web application is uploaded from Excel Web into CARE, CARE will synchronize user definitions made online in the CL-Touch with the CARE database.
		Delete User
	NO	TE: Only the user who has System Admin user level can create new users and edit or delete existing users.
	Procedure 1.	In the All.User Adminstration screen, tap the user you want to delete.
	2.	Tap the Delete button.
		RESULT: The user is deleted from the list.
		Display Project Information
	Procedure 1.	In the vertical operating icon bar, tap the $\textcircled{0}$ Information icon.
		RESULT: The Information screen displays.
		LuB08.ExcelWeb.All.Information
		J.
		Project
		Plant.
		Control Loop
		Controller VA Plant.

- 2. Tap Project button.
 - RESULT:
- In the Information.Project screen, project information as it has been defined in CARE is displayed on the *Info* 1 and *Info* 2 tabs. On the Info 1 tab the following information is shown.

Info 1 I	nfo 2	2
Project Name:	LuB08	-
Reference Number:	0	0
Description:	-	W
Customer:	- <u> </u>	E
Close		i

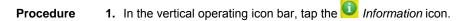
- Project Name Name of project, for example, site location
- **Reference Number** ٠ A number that further describes the project. For example, branch number
- Description •
- Default Text about the project that may help to identify it.
- Customer • Customer name
- 3. To view further information, tap Info 2. On the Info 2 tab the following information is shown.

Info 1 Info	2				2
Order Number:	0				0
Project Engineer:	-				5
Units of Measurement:	6	International	0	Imperial	W
Character Set:	0	ANSI X3.4	0	ISO 8859-1	-
	C	UCS-2			E
Close					i

- Order Number Number assigned to project order
- Project Administrator Name of responsible project engineer

- Units of Measurement International or Imperial (English). This selection affects the operation of the icons in Control Strategy that perform EMS operations. The values for the inputs and outputs are different depending on the selection of International or English units.
- Character Set The appropriate character set is necessary for unobstructed communication between devices on the BACnet bus. For proper communication between Excel Web controllers and the EBI central, or any other BACnet device, the ANSI (or ISO Latin I) character set must have been selected in CARE.
- 4. After you have viewed the project information, tap Close button.

Display Controller Information



			3
P	roject		G
Co	ntroller		W
	Plant		a -
Cont	trol Loop		
			1

2. Tap Controller button.

RESULT: The Information.Controller screen displays.

LuB08.ExcelWeb.All.Information.Controller	
	20
General	0
Versions	WA.
	1
Close	
	1
	-

When tapping the General button, you can view information such as name, model, last download, Ethernet and LON bus information. When tapping the Versions button, you can view version information on firmware, Linux image, web server, application and used tool, and other.

3. To view general information, tap General button.

RESULT:

- The Information.Controller.General screen displays. On the Info1 tab, the following information is displayed:
 - Controller Name
 - Device ID

Object identifier of the BACnet device object. This is a unique ID is issued by CARE for any device on the BACnet bus. If the BACnet device is an Excel Web controller, the device ID is the same as the controller number. NOTES:

When integrating 3rd party BACnet devices, it must be ensured that no identical device IDs exist in the whole BACnet system. For that reason, in CARE, an offset can be defined. Adding this offset to the controller number generates the device ID.

The display always shows 8/xxxxx, where "8" stands for the object type, which is "device object", and where xxxxx stands for the device ID itself.

Location •

Additional Text for the controller, which indicates the location of the controller, e.g. Floor 4, Section Nord.

- Controller Model • Controller type
- 4. To view further general information, tap Info 2 tab.



On the Info1 tab, the following information is displayed:

- Description
- Additional descriptive text
- Last Download

Time and date of the last application download

- System Status
 - DEV OPERATIONAL, which means the controller is operating normally.

5. To view further general information, tap Ethernet tab.

On the Ethernet tab, the following information is displayed:

- Use this IP address for LAN Access IP address, subnet mask and gateway address that have been allocated explicitly in CARE.
- 6. To view further general information, tap LON bus tab.

On the LON bus tab, the following information is displayed:

- Neuron Chip ID
- Displays neuron ID of the controller.
- Subnet-Node Address Domain 0
- Displays subnet/node address of domain 0 as defined in CARE
 Subnet-Node Address Domain 1
 Defaults to zero.
- 7. Tap Close button.
- 8. To view version information of the controller, tap the Versions button in the *Information.Controller* screen.
- 9. To view version information of the controller, tap the Versions tab.

RESULT: The Information.Controller.Versions screen displays. On the Controller tab, the following information is displayed:

- Controller Name
- Controller Model
- Firmware Version
- Linux Image Version
- **10.** To view further version information of the controller, tap the *Web* tab. On the *Web Server* tab, the following information is displayed:
 - Web Server Version
 - Web Pages Version
- **11.** To view further version information of the controller, tap the *Application* tab. On the *Application* tab, the following information is displayed:
 - Appl. Software Version Number of the translated application. With each translation and download of the application, the number will be increased.
 - Last Download (date and time)
 - Tool Name (used for application creation)
 - Tool Version
- **12.** To view further version information of the controller, tap the *Files* tab. On the *Files* tab, the following information is displayed:
 - Name
 - Version
 - Indicates the version of the file.
 - Туре
 - Indicates which Application part(s) are contained in the application file.
 - Seq.
 - Sequence indicates online changes, e.g. of Quick Access Groups, Parameters, User Administration etc.

With every online change, the sequence number is incremented.

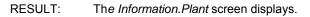
- Last Saved Indicates the time when this application file was created in the CARE tool (time of last CARE translation) or when the file has been saved due to an online change.
- 13. Tap Close button.

Display Plant Information

- **Procedure** 1. In the vertical operating icon bar, tap the *Information* icon.
 - RESULT: The Information screen displays.



2. Tap Plant button.



Info	Cycle Error / Halt	2
Plant Name:	BIG1_Klimsanlage	
Plant Type:	-	
Plant Descriptio		W
Close		i

RESULT:

On the *Info1* tab, the following information is displayed:

- Plant Name
- Plant Type
- Plant Description

3. To view further information of the plant, tab the Cycle tab.

Info V Cy	de CError / Halt	3
Current Program State:	RUNNING	-
last Start Date:	04/28/2008, 10:33:05	6.5
Last Stop Date:	+/*/*_ =.*.*	W
		E
Shutdown	Restart Close	G

On the *Cycle* tab, application specific properties related to the plant are displayed such as:

- Current Program State (running or stopped)
- Last Start Date
- · Last Stop Date

The application program controlling the plant can be stopped individually by tapping the **Shutdown** button and restarted by tapping the **Restart** button.

IMPORTANT

Stopping and restarting the program does not stop and restart the entire controller application, but parts of the application which control that particular plant.

4. To view further information of the plant, tab the Error / Halt tab.



On the Error / Halt tab, the following information is displayed:

- Reason for Halt
- Error Details
- NOTE: You can only shutdown or restart the control program if your access level is equal to or higher than the access level defined for these actions in the User Administration.
 - 5. Tap Close button.

View Control Loop Information

- **Procedure** 1. In the vertical operating icon bar, tap the O Information icon.
 - RESULT: The Information screen displays.

Project	(
Controller	7
Plant	1
Control Loop	

- 2. Tap Control Loop button.
 - RESULT: The Information.Control Loop screen displays.

			20
Cashal	.cop: RLT Anlage	e	0
Control	oop. Inc. I Anage		WA
			阳
ок	Cancel		1

3. Select the control loop from the **Control Loop** drop-down list box.

4. Tap OK.

RESULT:

On the General tab, the following information is displayed:

General C	Cycle 🛛 Access Rights	2
Control Loop Name:	RLT Anlage	-
Description:	Bei Frost Heizventil 100%, 🔺	0
	Pumpe an, Ventilatoren 💌	W
		Æ
Close		i

- Control Loop Name
- Description
- 5. To view further information of the control loop, tab the Cycle tab

General Cy	cle 🔰 Access Rights	2
Cycle Time Category:	Medium (5000 ms)	-
ast Execution Time:	10 ms	0
Priority for Writing:	18	N
Close		6

On the *Cycle* tab, application specific properties related to the plant are displayed such as:

Cycle Time Category

The cycle time category defines in ms how often the loop will be automatically executed by the controller. Cycle times are grouped in the following categories: Slow, Medium, Fast, and Very Fast.

- Last Execution Time This is the actual execution time in ms of the loop. Allows, e.g. detecting overruns by comparing the actual execution time with the assigned cycle time.
- Priority for Writing Displays priority with which the loop writes to its output(s)

6. To view further information of the plant, tab the Access Rights tab.

General C	ycle Access Rights	2
Read Access Level:	Operator (64)	
Write Access Level:	Operator (64)	
		WA
Close		

On the Access Rights tab, the access rights are displayed:

NOTE:

Control loop information will only be displayed, if the access level of the user is equal to or higher than the read access level of the control loop.

Changing control loop information is only possible if the user's access level is equal to or higher than the write access level of the control loop.

7. Tab Close button.

Fast Access Lists

Fast access lists (abbreviated as FAL) are custom made operation lists, which show plant- or user-oriented information (e.g. electrician, project engineer, and tenant).

Fast access lists can comprise selected datapoints and selected parameters. It is possible to create multiple fast access lists per user.

Fast access lists can be created on controller level and on plant level. In plant related fast access lists, you can only view datapoints/parameters of this particular plant whereas controller related fast access lists can comprise datapoints/parameter of different plants of the controller.

Create New Fast Access List

NOTE: You can only create and delete a fast access list if your access level is equal to or higher than the access level defined for datapoints and parameters in the fast access list. Otherwise the **Add** and **Delete** buttons are not displayed. A fast access list is only displayed if the user's read access level is equal

to or higher than the read access level of the fast access list.

- Procedure 1. Tap on Fast Access Lists icon
 - RESULT: The *Fast Access Lists* screen displays. If available, existing user-defined fast access lists are displayed. A fast access list can now be created, either as datapoint/parameter overview or as filter template.

Democase.Excel W	/eb.All.Fast	Access	Lists			_
Name		Туре				20
Stefan's Datapoi	nts	Points	/ Paran	teters		
						0
						WA
						E
Modify	New					0
Show	Delete			Page	1 💌	
🏠 <table-cell-columns> A</table-cell-columns>		WAD	WA	X	A	0

Common Steps

- 3. In the *Name* column, the fast access lists are listed by name.
- **4.** In the *Type* column, the type (datapoint/parameter overview or filter template) is shown.
- 5. To create a new fast access list, tap the New button.

RESULT: The Add new FAL screen displays.

Add new FAL		2
Name:		6
Гуре:	Selected Points / Parameters 💌	6
		W
Read Access Level:	System Administrator (128)	-
Vrite Access Level:	System Administrator (128)	
Add	Cancel	6

6. In the Name field, enter a name by tapping the ... button right to the field.

FAL Type Selection

7. From the **Type** drop-down list box, select the fast access list type under:

Selected Points/Parameters

Allows watching the impact of changed parameter values on datapoints. The parameter values are changed online.

Filter Template

Allows quickly displaying certain datapoints of a plant.

NOTE: If the Filter Template option is selected, the *Parameters* tab will not be available later.

Add new FAL			1
Name:	ANALOG INPUTS		6
Туре:	Selected Points / Paramete	ers 💌	(internet)
			V
Read Access Level:	System Administrator (128)		100
Write Access Level:	System Administrator (128)	-	
Add	Cancel		(

Fast Access List of Type "Selected Points / Parameters"

Add new FAL		1
Name:	Tenant	
Туре:	Filter Template	- <u></u>
Read Access Level:	System Administrator (128)	al W
Write Access Level:	System Administrator (128)	
Add	Canoel	6

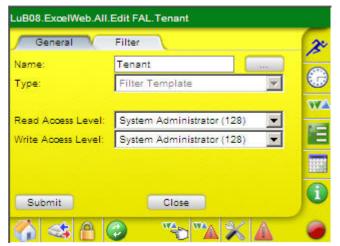
Fast Access List of Type "Filter Template"

8. Tap Add button.

LuB08.ExcelWeb.All.Edit FAL.ANALOG INPUTS General V Datapoints V Parameters 20 ANALOG INPUTS Name: 0 Type: Selected Points / Parameters w w Read Access Level: System Administrator (128) -ΥE Write Access Level: System Administrator (128) i Close Submit wΔ, 1

RESULT: The *Edit FAL* screen displays.

General Tab Example: Selected Points / Parameters



General Tab Example: Filter Template

- **9.** On the General tab, select the user levels that should have read and write access of the fast access list from the **Read Access Level** and **Write Access Level** drop-down list boxes.
- 10. Tap Submit button.

11. If you have selected the fast access list type 'Filter Template`, tap on *Filter* tab and continue with step 12. If you have selected the fast access list type 'Selected Points/Parameters', continue with step 13.

General	Filter		
Plant:	HVAC_Control,L	ig Set	÷
Point Type:	AI,AO,AV,BI,BO,	E Set	1
Point Name:	-	Set	1
First by:	Name	Ascending 💌	1
Then by:	Туре	Ascending 💌	
Then by:	<none></none>	Ascending 💌	

'Filter Template' Selection

- 12. On the Filter tab, do the following
 - a. Right to the **Plant** field, select plant(s) of which you want datapoints to be displayed. Tap on the **Set** button to select the plants in the following screen.

HVAC_0			x
Light_C	ontrol		
			WZ
			E
All	None	Page 1 💌	G

- b. After selection of the datapoints, tap **OK**, and then tap **Close**.
- c. Right to the **Point Type** field, tap **Set** button and check/uncheck specific datapoint types to be included/excluded from the filter in the following screen.



- d. After selection of the datapoints, tap OK.
- e. Right to the **Point Name**, tap **Set** button to filter specific datapoint names by entering a search text. By default all datapoints will be displayed as indicated by an asterisk.



- f. To display specific datapoint (names), enter the appropriate search text.
- g. Tap **OK** to apply the filter.
- h. On the *Filter* tab, configure the sort order by selecting the column title and sort type in the **First by** and **Then by** drop-down list boxes (see "Configure Sort Orders" section).

'Selected Points/Parameters' Selection 13. Tap on the Datapoints tab.

General	Datapoints Parameters	
urrent Filter	* HVAC_Control,Lig Set	E
	Datapoint:	E
V	All_Lights	7
	Cooling_Valve	E
v	Filter_Alarm	
v	Frost	
Submit	Close Page 1 🔻	6

Datapoints Tab Example

- **14.** Under **Current Filter**, select the point types that should be used in the fast access list, as follows:
 - a. Tap Set button.

Filter by:				2
Plant:	HVAC_Control,Lig	Set	Reset	~
Point Type:	AI,AO,AV,BI,BO,E	Set	Reset	G
Point Name		Set	Reset	577
C All				1
 All Points i Points i 				

b. Right to the **Plant** field, select plant(s) of which datapoints you want to be displayed by tapping the **Set** button and selecting the plants in the following screen.

Democase.Exce	el Web.All.Ed	IT FAL.ANALOG INPUTS	_
HVAC_Co	ontrol		20
Light_Co	ntrol		\bigcirc
			WA
			Æ
All	None	Page 1 💌	0
ок	Close		
	1	🔺 💥 🖉	0

- c. After selection of the datapoints, tap OK, and then tap Close.
- d. Right to the **Point Type** field, tap **Set** button and check/uncheck specific datapoint types to be included/excluded from the filter in the following screen.

Democase.Excel Web.All.B	Edit FAL.ANALOG INPUTS	
Point Type Filter:		a
Analog Input (AI)	Multi-State Input (MI)	15
Analog Output (AO)	Multi-State Output (MO)	
Analog Value (AV)	Multi-State Value (MV)	
Binary Input (BI)	Pulse Converter (PC)	
🔽 Binary Output (BO)	Flag Point (FP)	E
▼ Binary Value (BV)	Reference Input (RI)	
ок	Cancel	1
🏠 < 🛆 🥝	🔺 🗶 🖉 🥐	0

- e. After selection of the datapoints, tap OK.
- f. Right to the **Point Name**, tap **Set** button to filter specific datapoint names by entering a search text. By default all datapoints will be displayed as indicated by an asterisk.

Democ	ase.E	xoel W	/eb.Al	I.Edit	FAL.A	NALO	g inp	UTS		_
P	oint Na	ame:		A*			ľ			X
9	w	e		t	У	u		•	P	\bigcirc
8	s	d	f	9	h	i	k	1		WA.
z	x	c	: V .:	b	. ns	m			×	ME.
Ca	ips	Nu	im.	1		á	aŭ -	-	?	
	ок		0	Cano	cel 🛛					1
		A	0		WA	1	13	64		0

- g. To display specific datapoint (names), enter the appropriate search text.
- h. Tap **OK** to apply the filter.
- 15. Select further filter criteria under:
 - All
 - displays all points – Points in Manual
 - displays points set to manual only – Points in Alarm
 - displays points that are in alarm only

16. Tap on the Parameters tab.

General	V Datapoints V Parameters	
Current Filter:	HVAC_Control Ten Set	-
	Parameter:	0
	segment 1 Xa	7
	segment 1 Xb	E
Г	segment 1 Ya	4
	segment 1 Yb	
Submit	Close Page 1 💌	(

17. Right to the Current Filter field, tap Set button.

In the following screen you can you configure the parameter filter for assigning parameters to the fast access list. Filtering is possible for control loops on plant level. Filter criteria are parameter path and parameter name.

Plant:	HVAC_Control	-
Control Loop:	Temperature Control	•
Function:	Heat_Cool Sequence	-
Close		
		1999 - 1948 1999 - 1998

- 18. From the Plant drop-down list box, select the plant.
- 19. From the Control Loop drop-down list box, select the control loop.
- **20.** From the **Function** drop-down list box, select the control function
- **21.** Tap the **Submit** button to save settings done on the *General, Datapoints,* and *Parameters* tabs and tap the CLOSE button.
 - RESULT: The list is inserted under Fast Access Lists screen.

Modify Fast Access List

Procedure 1. Tap on Fast Access Lists icon ².

RESULT: The Fast Access Lists screen displays.

lame	Туре	
ANALOG INPUT	S Points / Parame	ters
Stefan's Datapo	ints Points / Parame	ters
Tenant	Filter Template	
Modify	New	

- 2. Tap the fast access list, you want to modify, in the list.
- 3. Tap the MODIFY button.

RESULT: The *Edit Fast Access List* dialog screen displays.

General	Filter	2
Name:	Tenant	
Туре:	Filter Template 💌	
		W
Read Access Level:	System Administrator (128)	20
Write Access Level:	System Administrator (128)	
Submit	Close	i

- **4.** Modify the fast access list according to your needs on the *General, Datapoints* and/or *Parameters* tabs.
- 5. Tap the SUBMIT button to save settings.
- 6. Tap the Close button.

Delete Fast Access List

- Procedure 1. Tap on Fast Access Lists icon 2.
 - RESULT: The Fast Access Lists screen displays.

Name		Туре		
ANALOG INPUT	s	Points / Pa	rameters	
Stefan's Datapo	ints	Points / Pa	rameters	
Fenant		Filter Tem	plate	
Modify	New			
Show	Delete		Page 1 💌	

- 2. Tap the fast access list, you want to delete, in the list.
- 3. Tap the **Delete** button, and then tap the **OK** button in the message box asking if you are really want to delete the selected fast access list.
 - RESULT: The selected fast access list is deleted in the Fast Access Lists screen.

Name		Туре			2
ANALOG INPUT	s	Points /	Parameter	9	-
Stefan's Datapo	ints	Points /	Parameter	5	
					W
Modify	New				6
Show	Delete		Par	e 1 💌	

Show/Modify Point/Parameter From within Fast Access List

- Procedure 1. Tap on Fast Access Lists icon 2.
 - RESULT:
 - The Fast Access Lists screen displays.

Name		Туре		
ANALOG INPUT	S	Points /	Parameters	_
Stefan's Datapoints		Points /	Parameters	
				2
				P
Modify	New			6
Show	Delete		Page 1	82254

- 2. Tap the fast access list that contains the points/parameters you want to view/modify, in the list.
- 3. Tap the Show button.
 - RESULT: The Fast Access List dialog screen displays. In the case, the fast access list is of type points / parameters, the Points and Parameters tabs are available. In the case, the fast access list is of type filter template, only the Points tab is available

ocase.Excel \	Veb.All.Fast Access	Lists.ANALOG INPUT	s
Points	Parameters		2
Name	Value/Unit	Status Typ	e 🙆
	no entr	y	
			WA.
Details	Close	Page 1 💌	I
6	A 📀 🚿	🔁 🌇 💥 🛕	

- 4. On the Points tab, tap the point which you want to view/change.
- 5. On the Parameters tab, tap the parameter which you want to view/change.
- 6. Change point or parameter settings as described in the corresponding "View/Edit Datapoint Details" and "View Parameter Info/Change Parameter Value" sections.

Schedules

Schedules are daily and weekly time programs, which switch datapoints by setpoints or statuses. Schedules are assigned to plants and each schedule can command datapoints of that plant.

Each schedule specifies a list of switchpoints of datapoint values on a weekly basis. The week program defines the normal daily activity of the system by specifying which switchpoints are to be commanded each day of the week. The week program applies to a definable time period. There is only one week program per schedule.

Besides the week program, specific programs called exceptions can be created. Exceptions have higher priority than the week program and will overwrite the week program for a single, or for a recurring day, or for a definable time period.

View Schedules

Procedure 1. Tap on Schedules icon

RESULT:

T: The Schedules screen displays, listing the schedules of all plants of the controller by default (limited by the page as selectable in the drop-down list box).

Current Filter:			Bet	1
Schedules (Description	ר)			
Schedule_Fans				6
Schedule_Room_Set	point			V
				ľ.
Details		E	Page 1 💌	

By setting a filter in the **Current Filter** field, you can list schedules with particular names, for example, all schedules beginning with the letter F.

2. To display specific schedules, tap Set button.

				le nan	ne					1
\$	Search	1 Strin	g:		-					4
q	w	e	r	t	у	u		0	P	0
8	5	d	f	9	h	L.	k	1		V
z	x	C	v	b	Π	m			X	E
Ca	aps	N	um			á	อมี		?	-
		-								1
										0
-	OK 👘			Cano	cel 🛛					1

3. Enter a search string in the **Search String** field. Usage of wildcards (* and ?) is possible.

By default, all schedules will be displayed indicated by the asterisk. A blank filter displays all schedules too. If any text without wildcards is entered, the filter will search for an exact match. The search is case-sensitive.

4. Tap OK button.

All schedules matching the filter criteria will be displayed in the *Schedules* screen.

Schedules can be edited by tapping the **Details** button.

NOTE: Schedules cannot be deleted.

5. To edit a schedule, tap on the schedule name listed in the *Schedule Name* column, and then tap the **Details** button.

Edit Schedule

- Procedure
- **1.** On the *Schedules* tab, tap the **Details** button.
 - RESULT: The individual *Schedule* screen displays. By default the *Week* tab is selected.

De	tails		Week	V.	Rights	V Except	ions	1
Swito	hpoints		Моло	iay	-	New		-
00	: 00		Stopp	ed 💌		Delete	^	(E)
08	00		Runni	ng 💌	1	Delete	~	V
								L
0	1	2	3	4	±	E		-
5	6	7	8	9		×		
0	omit			lose		Сору		C

2. Tap the *Details* tab.

-	etails	X	Week	X	Right	s (E	Exceptions	3
Descrip	otion:						4	G
55 L.	lid Fro		01	/ 01	_/	2008		W
_ V≊	lid To:				/			1
0	1	2	3	4	±			-
5	6	7	8	9		×		
Su	omit		0	lose				U

Here you can enter the following details for the schedule:

- Description
- · Valid period
- 3. In the Description field, enter a meaningful description (optional).
- 4. The valid period for the schedule will be defined by selecting the start and end date under Valid From and Valid Until.
- 5. To define or change the valid period of the schedule, do the following:

Tap the **Valid From** checkbox and enter the start date in the fields to the right. dd/mm/yyyy.

NOTE: If the checkbox is unchecked, no start date can be selected. This means that the schedule is valid on any date up to and including the end date.

Tap the **Valid To** checkbox and enter the end date in the fields to the right. dd/mm/yyyy.



- NOTE: If the checkbox is unchecked, no end date can be selected. This means that the schedule is valid on any date from the start date on.
- NOTE: If both checkboxes are disabled, the schedule is always valid.

6. Tap on Submit button and continue by tapping the Week tab.



On the *Week* tab, you create the weekly program that should be performed during the schedule period defined on the *Details* tab.

This is done by defining switchpoints. Switchpoints are time-value pairs per day that determine the time when the schedule sets a certain value.

Switchpoints can be deleted and copied to other weekdays.

- 7. Right to the **Switchpoints** field, select the day. Below the Switchpoints field the switchpoint times are shown. To the right, the status running or stopped -, is displayed. By tapping the Scroll buttons right the **Delete** buttons you can view all switchpoints of the selected day.
- 8. To add a new switchpoint, tap New button. A new row will be inserted



- **9.** Enter the time and value in the corresponding fields, and then select switching status from the drop-down list box.
- **10.** Tap **Add** button. The third line disappears and the new switchpoint is added the selected day.
- **11.** To delete a switchpoint, display the switchpoint using the scroll buttons.
- 12. Tap the Delete button(s).
 - NOTE: You can delete start and stop times of a switchpoint separately.
- **13.** To copy a switchpoint, display the switchpoint you want to copy, using the scroll buttons.

- 14. Tap the Copy button.
 - ocase.Excel Web.HVAC_Control.Schedule.Schedule_Fans Details Week Rights Exceptions 2º Copy From: Monday Copy To: Tuesday Wednesday w Thursday Friday Saturday Sunday Overwrite complete day(s) Mode OK Cancel
 - RESULT: The following screen displays.

Here you can copy a switchpoint from one single source weekday to one or multiple destination weekdays.

Under **Copy from**, the source weekday is displayed. Under **Copy To**, you select the Destination Weekday(s).

Under **Mode**, you can define how duplication conflicts should be handled, for example, if the source switchpoint is on 7.00 and the target weekday already contains a switchpoint on 7.00.

- 15. Under Copy To, tap the weekday in the list.
- 16. Under Mode, select the mode by tapping the desired radio button at:

Overwrite complete day(s) All existing switchpoints in the destination weekday(s) are deleted

Overwrite duplicates Destination switchpoints with the same time as the source switchpoint are overwritten by the source switchpoint.

Do not overwrite duplicates Destination switchpoints with the same time as the source switchpoint are not overwritten by the source switchpoint.

17. To save settings, tap the OK button.

RESULT: The previous screen redisplays.

18. Tap on Submit button and continue by tapping the *Rights* tab.

	/eek Rights E	
	and the second se	(
ead Access Level:	Operator (64)	
/rite Access Level:	Operator (64)	<u> </u>
		1
		1
		6

- **19.** From the **Priority for Writing** drop-down list box, select the priority between 9 and 16 (lowest). The priority defines which priority the schedule will have in the BACnet priority array.
 - NOTE: Make sure, that the priority of the schedule is higher than the priority of the control loop (which is 15 be default). Otherwise the schedule will not be executed.
- **20.** From the **Read Access level** drop-down list box, select the level that should have read access for the schedule.

Schedules will only be displayed in the CL-Touch if the read access level of the user is equal to or higher than the read access level of the schedule.

- **21.** From the **Write Access level** drop-down list box, select the user level that should have write access for the schedule.
- 22. Tap on Submit button and continue by tapping the Exceptions tab.

Details	V Week	Rights	Exceptions	C
xception	-7	Pri	ority	1
olidays 2006	8	15		(
				7
				-
				Ì
New	Edit	Delete		

Here you can create, edit, and delete exceptions.

An exception is a special daily switching program that differs from the weekly program. Exceptions can have different priorities and each exception will have a higher priority than the weekly program. Exceptions themselves can be prioritized to define the processing sequence in case exceptions have overlapping validity ranges. If the current date enters the valid period of the exception, the exception overwrites the daily program of that day.

- 23. To create a new exception, tap the New button.
 - RESULT: The following screen displays. The *General* tab is selected by default.

-	e.Exce	Vs	witch F	Points	Val	id Peri	iod (Prio	rity	2
Name	200	8-04-2	8Mo]				C
q	w	e			У	U			P	W
a)	5	d	1	9	h	L.	k		E	1.0
z	x	C	v	b	n	m			×	
Ca	ips	N	'n			á	อบั		?	I
0	ж		-	Cano	el					C
	-	۵	C		wa.	WA/	19			0

- 24. In the Name field, change the name of the exception, if desired.
- 25. Tap on Switch Points tab.



26. Tap on New button. A new row will be inserted.

	neral	Swit	ch Poi	nts (V	alid P	eriod V	Priority	3
witch	points:	St	opped	-		Add		C
	C.S.			_				W
			_	Street of the	100-00			
0		2	3	4	Ē			
0	1	2	3	4	Ð			

27. Enter the time and value in the corresponding fields, and then select the switching status from the drop-down list box.



28. Tap **Add** button. The new switchpoint is added the selected day and the **New** and **Delete** buttons are available.



29. To add a new switchpoint, tap New button. A new row is displayed.

8 09	Stopped	*	Delete
------	---------	---	--------

30. Enter the time and value in the corresponding fields, and then select the switching status from the drop-down list box.

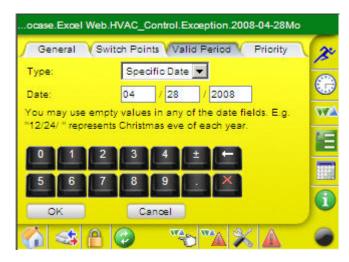


31. Tap **Add** button. The new switchpoint is added the selected day and the **New** and **Delete** buttons are available.

Switch	points:		New
08	: 09	Stopped 💌	Delete
20	: 21	Stopped 💌	Delete

32. If desired, continue by adding further switchpoints as described in the previous steps.

33. Tap on the Valid Period tab.



Here you define the valid period for the exception.

- 34. From the Type drop-down list box, select option under:
 - Specific Date
 - e.g. for Christmas Eve on 24.12.2004
 - Date Range
 - e.g. for Summer holidays from 27.07.2004 until 09.09.2004 • Recurring Event
 - e.g. for every last Friday of every Month
 - Calendar Reference
 A project-wide calendar provides dates, e.g. regional holidays and
 public/religious festivals or any other particular date. The time period can be
 a specific date, a date range or a recurring event.
- 35. In the corresponding fields below, enter the data of the valid period:

Specific Date In the **Date** fields, enter the date (dd/mm/yyyy). You may use wildcards in any of the fields. Example: 12/24/* represents Christmas Eve of each year.

Date Range In the **Date Range From** and Date **Range To** fields enter the dates (dd/mm/yyyy).

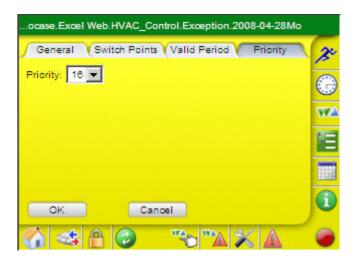
Type:	Date	Range	-
Date Range From:	04	/ 28	/ 2008
Date Range To:	05	/ 24	/ 2008

Recurring Event

Under Recurring on, select options from the drop-down list boxes.

Example: Validity Type = Specific Date

36. Tap on OK button and continue by tapping the *Priority* tab.



37. From the **Priority** drop-down list box, select the priority of the exception between 9 and 16 (lowest). The priority defines the processing sequence in case exceptions have overlapping validity ranges.

The priority defines which priority the schedule will have in the BACnet priority array.

- NOTE: Make sure, that the priority of the schedule is not lower but equal to the priority of the schedule. Otherwise the priority will not be executed
- **38.** To edit an exception, tap on the exception in the list. Then edit the properties you want to edit in the same way as described in the previous steps of this section.

ocase.Excel	Web.HVAC_(Contr	ol.Schedu	Ile.Schedule_Fans	
Details	Week	V.	Rights	Exceptions	20
Exception			P	riority	-
Holidays 200	8		1	5	
2008-04-28M	0		1	6	
					we
					E
_			-		
New	Edit		Delete		0
Submit	Close			Page 1 💌	
6	A 🕝		WA WA		0

- **39.** To delete an exception, tap the exception in the list, and then tap the DELETE button.
- **40.** To finish creating a new schedule, tap the SUBMIT button, and then tap the **Close** button.

RESULT: The schedule is changed and the Schedules screen redisplays.

Calendars

Calendars are assigned to a whole project. They contain exception days or periods, e.g. Christmas, holidays. If controller schedules refer to the same calendar(s), project wide scheduling is possible for these controllers; this is because calendar dates are executed in each controller of the project, which has references to the same calendar. Changes in multiple particular controller schedules can be quickly made by simply changing the referenced calendar(s).

View Calendars

Procedure 1. Tap on Schedules icon

- The Orlandon error display
- RESULT:
- The *Calendars* screen displays, listing the calendars of all plants of the controller by default (limited by the page as selectable in the drop-down list box).

Democase.Excel Web.All.Calendars	-
Calendars (Description)	2
Holidays 2005	-
Holidays 2006	
Holidays 2007	
	ST A
Details References Page 1 💌	0
	-

2. To display details of a calendar, tap Details button.

The details show properties such as:

- Calendar Name
- Description
- Active
- Access rights
- Date range
- **3.** To show referenced schedules of a calendar, tap the calendar in the list, and then tap **References** button.

Via **References** function, calendars can be edited, copied, deleted and newly created. For each calendar, the referenced schedules can be viewed.

NOTE: Calendars are only displayed if the read access level of the user is equal to or higher than the read access level of the calendar.

Creating, editing, deleting and copying calendars are only possible if:

- The user's access level is higher than the access level for creating, editing, deleting and copying calendars defined in the user administration. Otherwise the **New**, **Delete** and **Copy** buttons are not displayed.
- user's write access level is equal to or higher than the write access level of the individual calendar.

View Calendar Details

- **Procedure** 1. On the *Calendars* tab, tap the **Details** button.
 - RESULT: The individual *Calendar* screen displays. By default the *Info* tab is selected.

Info	Access Rights V List of Dates
lame:	Holidays 2006
escription:	
tatus:	Aktiv
Close	

The Info tab shows the following properties:

- Name
- Name of the calendar
- Description

٠

Meaningful additional description (optional)

- Status The active status shows whether the current date is within the date range of any of the calendars' entries (checked) or not (unchecked), that is, whether the calendar impacts the current date or not.
- · Access rights
- Date range
- 2. Tap the Access Rights tab.

Info Acce	ess Rights 🗸 List of D	ates	
Read Access Level:	Operator (64)		
Write Access Level:	Operator (64)	v	E
			7
			C
			l
			6

The Access Rights tab shows the following properties:

- Read Access Level
- Write Access Level

3. Tap the List of Dates tab.

Info Acces	ss Rights V List of Dates
me	Date
mmer Holidays	07/17/2006 08/12/2007

The List of Dates tab shows the following properties:

- Name
- Name of referenced schedule
- Date
 - Date range of referenced schedule
- 4. Tap the Close button.

View Referenced Schedules

- **Procedure** 1. In the *Calendars* screen, tap the calendar in the list, and then tap **References** button.
 - RESULT: The *References* screen displays showing all schedules which reference to the selected calendar via exceptions. You can view detailed information of the exception and edit the exception by tapping on the **Details** button. For detailed information on how to edit a referencing exception of a schedule, please refer to the "Edit Schedule" section.

Controller Name	Schedule Name	2
Excel Web	Schedule_Room_Setpoint	
		C
		W
		8.0

Datapoints

View Datapoint List

Datapoint lists can be displayed for all plants or for a particular plant.

- Procedure 1. Tap on Datapoints icon
 - RESULT:

The *Datapoints* screen displays listing the datapoints of all plants of the controller by default (limited by the page as selectable in the drop-down list box). By setting a filter in the **Current Filter** field, you can list datapoints of particular plants, particular datapoints, for example, all analog datapoints, and datapoint with particular names, for example, all datapoints beginning with the letter D.

Current Filter: * HV	/AC_Control, L	i Set	-	2
Name	Value/Unit	Status	Туре	6
All_Lights	On	Normal	BO	6.
Cooling_Valve	0.00 %	Normal	AO	W
Filter_Alarm	Normal	Normal	BI	
Frost	Frost	Off Normal	BI	
Heating_Valve	100.00 %	High Limit	AO	
Details		Page	1 💌	G

Datapoints can have the following properties:

Name

A datapoint's details can be edited by tapping on its name

Value/Unit

Shows the current value with engineering unit (analog datapoint) or state (digital datapoint)

 Status (Event State) Shows the transition type

Normal

The alarm is going to normal state, that is, the value of the datapoint remains under the high limit, or exceeds the low limit.

Off-Normal

The alarm reaches off-normal state that the datapoint value exceeds the high limit, or remains under the low limit.

Fault

The alarm originates in a fault such as sensor break, etc.

High Limit

Point value has exceeded the high limit. Special case of the Off-Normal state of analog inputs, analog outputs, and analog values.

:

Low Limit

Point value has dropped below the low limit. Special case of the Off-Normal state of analog inputs, analog outputs, and analog values.

• Type e.g. AI, AO, etc.

By tapping the **Details** button, further general properties and specific properties of the datapoint can be viewed and changed. For example:

General status flags settings

- ALM = point is in alarm
- FLT = point has a fault
- OVR = point value is overridden
- OOS = point is out of service

Specific properties, such as runtime of a digital output.

For detailed description of viewing and changing datapoint details, please refer to the "View/Edit Datapoint Details" section.

- 2. Under Current Filter, select the point types that should be displayed, as follows:
 - i. Tap Set button.
 - Right to the **Plant** field, select plant(s) of which datapoints you want to be displayed by tapping the **Set** button and selecting the plants in the following screen.

After selection of the datapoints, tap OK, and then tap Close.

- k. Right to the **Point Type** field, tap **Set** button and check/uncheck specific datapoint types to be included/excluded from the filter in the following screen.
- I. After selection of the datapoints, tap **OK**.
- m.Right to the **Point Name**, tap **Set** button to filter specific datapoint names by entering a search text. By default, all datapoints will be displayed as indicated by an asterisk.
- n. To display specific datapoint (names), enter the appropriate search text.
- o. Tap **OK** to apply the filter.
- 3. Select further filter criteria under:
 - All
 - displays all points
 - Points in Manual
 - displays points set to manual only – Points in Alarm
 - displays points that are in alarm only
- 4. Tap Close button.
 - RESULT: In the *Datapoints* screen, all datapoints matching the filter criteria will be displayed.
 - NOTE: Only those datapoints can be displayed of which read access level is equal to or lower than the read access level of the user.
- 5. To view or edit details, please refer to the "View/Edit Datapoint Details" section.

View / Edit Datapoint Details

Viewing/editing datapoint details may include the following:

- View general properties such description, point role, and access rights
- Manually override the present value, that switch between Manual and Auto mode
- Enable/disable alarm reporting
- View alarm status (flags)
- Change COV value
- Change Relinquish Default value
- Enable/disable Off-Normal conditions

Continue with the "General Procedure" which describes where the functions will be accessible.

General Procedure

1. On the Datapoints tab, tap on the datapoint.

Current Filter: 📑 H	VAC_Control, Li	Set	
Name	Value/Unit	Status	Туре
Lightetpoint	100.00 lux	Low Limit	AV
Lux_Muisensor	0.00 lux	Low Limit	AI
Occupancy	Room_Occupied	Normal	BI
Outdooerature	0.00 °C	Low Limit	AL
Return_Fan	Stopped	Normal	BO
Details		2	-

2. Tap the Details button.

RESULT: The Details dialog box of the selected datapoint displays.

Example: Analog Input Details of AI.

	lue V	Statu	us V	Alarm	(G	eneral 🚶	Misc	N;
•	Auto V	alue:	0	00.00		lux		-6
0	Manua	l Valu	e: [lux		E.
								V
								2
0	1	2	3	4	±			
5	6	7	8	9		X		1
								6

By default, the Values tab is selected.

- **3.** View / change desired datapoint details by selecting the desired tab, of which functions are described in the following:
 - General Shows general properties such as name, type, description, LON mapping data, and access rights. See "View General Properties" section as follows.
 - Value
 - Manually override the present value, that switch between Manual and Auto mode
 - See "View / Edit Values" section in the following.
 - Status
 - View alarm status flags, the event state and the event transitions See "View / Edit Status Properties" section as follows.
 - Alarm
 - View alarm information such as the notification class and alarm type and enable/disable Off-Normal conditions. In addition specific properties that are typical for the selected datapoint type can be viewed/changed. See "View / Edit Alarm" section as follows.
 - Misc
 - View/change of miscellaneous values, for example, value increment (COV), priority, polarity, reliability, manual life safety, and others. See "View / Edit Miscellaneous Properties" section as follows.
 - Prio
 - View/Change relinquish default value See "View / Edit Command Priorities" as follows.

View General Properties

Procedure 1. In the *Datapoints* screen of the selected datapoint, tap the *General* tab.

🖌 Value 💙 Status	Alarm V General V Misc V
Name:	Lux_Multisensor
Туре:	Analog Input
Description:	Multisensor 🙀
Read Access Level:	Guest (0)
Write Access Level:	Guest (0)
Close	

Here the following datapoint details are shown:

- Name
- Shows the datapoint name
- Type
 - Shows datapoint type, e.g. analog input, binary input etc.

#States

Shows the number of states of a multi-state datapoint (applies to MI, MO, MV datapoints only).

Name:	Lux_Multisensor	
Туре:	Analog Input	
Description:	Multisensor	× ×
Read Access Level:	Guest (0)	
Write Access Level:	Guest (0)	

• Description

Shows a detailed description (optional)

- Read Access Level
 Shows the read access level of the datapoint
- Write Access Level
 Shows the write access level of the datapoint

To write values to a datapoint, you must have a write access level equal or higher than the write access level of the datapoint.

Datapoint details will only be displayed if you have a read access level equal to or higher than the read access level of the datapoint.

- 2. Tap the Close button to save settings.
- **3.** To view /edit alarming details, tap on the *Alarming* tab (see "View / Edit Alarming" section.

View / Edit Values



Procedure 1. In the *Datapoints* screen of the selected datapoint, tap the *Value* tab.

Here you can manually override the present value, that is, switch between Manual and Auto mode and vice versa, view alarm status (flags) and change the COV value.

- Auto Value (applies to all datapoint types) In Auto operation mode (Auto=checked), the datapoint shows the current value of the datapoint.
- Manual Value (applies to all datapoint types) In Manual mode, the current datapoint value can be overwritten.

To override the current value, tap the **Manual Override** radio button and enter the value into the field.

- NOTE: When an AI datapoint is set into Manual mode and its value will be overwritten, the 'overridden' and 'out of service' flag will be set (see Status). The set out of service flag indicates that the datapoint is decoupled from the physical input (sensor) to prevent a sensor value from instantly overwriting the manual value in the next scan cycle.
- NOTE: When an AO datapoint is set into Manual mode, its current value will be overwritten by the manual value that has a higher priority (8). As long as no other process of higher priority writes to the analog output, the manual value is present. The overridden flag will be set (see Status).
- 2. Tap the SUBMIT button to save settings.
- **3.** To view /edit datapoint command priorities, tap on the *Command Priorities* tab (see "View / Edit Values" section.

View Status Properties

Procedure 1. In the *Datapoints* screen of the selected datapoint, tap the *Status* tab.

Here you can view the alarm status flags, the event state and the event transitions.

In the first line, the status flags are indicated (All datapoint types)

If checked, the status flags have the following meaning:

- In Alarm Datapoint is in alarm. Cause can be faults, Off-normal conditions, and lifesafety alarm.
- Fault
- The datapoint or the physical input is not reliable, e.g. in case of sensor break (Open Loop).
- Overridden
- Datapoint is in manual operation mode. Value has been overwritten. • Out of Service
- Physical input is decoupled from the datapoint, e.g. in case of manual override. The present value displayed is not the present value, which would be delivered by the physical input.

NOTE: Multiple flag indications are possible.

Example:

A 'To-Fault transition' causes also always an alarm. Hence both, the 'In Alarm' and the 'Fault' status flags are enabled.

In the second line in the Event State field, the event state is displayed.

Event State (All datapoint types)

Shows the event state of the datapoint:

- Normal Operation
 - Point is in normal operating state.
- Off-Normal Condition
 - Point value is out of normal range.
- Fault
 - Point is prevented from proper operation. Point value can be in normal or out of normal range. Due to the maloperation of the point, the value is unreliable.

Causes for a fault can be, for example sensor and cable breaks.

- Above High Limit Point value has exceeded the high limit. Special case of the Off-Normal state of analog inputs and outputs.
- Below Low Limit Point value has dropped below the low limit. Special case of the Off-Normal state of analog inputs and outputs.

In the table, the event transitions are shown.

- Event Transition
 - Shows the transition types that can be selected for reporting:
 - Back To-Normal

The alarm is going to normal state, that is, the value of the datapoint remains under the high limit, or exceeds the low limit.

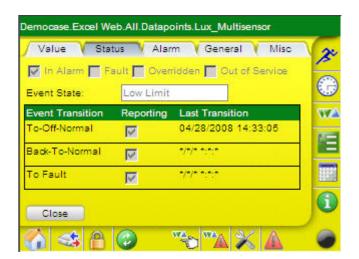
- To Off-Normal The alarm reaches off-normal state, that is, the datapoint value exceeds the high limit, or remains under the low limit.
- To Fault The alarm originates in a fault such as sensor break, etc. (depends on point type)
- Reporting

.

Shows whether the transition type is reported and saved in the alarm buffer and in the alarmlist (checked) or not (unchecked).

Last Transition

Shows the date when the last transition has occurred.



2. Tap the Close button.

View Alarm

Procedure 1. In the <i>Datapoints</i> screen of the selected datapoint, tap the <i>Alarm</i> tab

	Alarm V Gener	ral 🔰 Misc
rm Type / Class:	Event / LOW (6291	4
High Limit Enable	5000.00	lux
Low Limit Enable:	100.00	Tux
ad Band:	10.00	lux
rm Delay:	0	s

Here you can view alarm information such as the notification class and alarm type. In addition specific properties that are typical for the selected datapoint type, for example, the dead band of an analog input, can be viewed

• Alarm Type / Class

By default, all alarms are of the type 'event'. Shows the name of the notification class. The value in brackets is the BACnet object ID of the notification class.

Note that only the present value property is to be considered for alarming.

The **High Limit Enable** and **Low Limit Enable** checkboxes are showing the conditions, which set off an Off-Normal event. The Off-Normal conditions depend on the point type.

- High Limit Enable (applies to AI, AO, AV, and PC datapoints only) If a high limit is exceeded and this condition remains present for at least the defined alarm delay (time), than an alarm of event type 'To-Off-Normal' is set off.
- Low Limit Enable (applies to AI, AO, AV, PC datapoints only) If the present value falls below the low limit and this condition remains present for at least the defined alarm delay (time), than an alarm of event type 'To-Off-Normal' is set off.
- Deadband (applies to AI, AO, AV datapoints only) In order to set off an alarm of event type 'To-Off-Normal', for at least the defined alarm delay (time) the present value must remain within the range: low limit plus deadband and high limit minus deadband.
- Alarm Delay (applies to all datapoint types, except PC datapoint) Defines the time delay with which the 'To-Off-Normal' event will be set off.

Alarm Type / Class:	Event / LOW (82914	
High Limit Enable:	5000.00	lux
Low Limit Enable:	100.00	lux
Dead Band:	10.00	lux
Alarm Delay:	0	s

 Alarm Value Enable (applies to BI and BV datapoint types only) Here the alarm value (status) is displayed, e.g. 0 or 1, ON or OFF, Up or Down, when an alarm should be reported in case of binary input changes. In addition, the alarm delay is displayed in the Alarm Delay field.

Alarm Type / Class:	Event / JOURNAL (629	
Alarm Value Enable:	Room_Unoccupied	2
Alarm Delay:	0	5

 State Text, Is Alarm Condition, Is Fault Condition (applies to MI and MV datapoint type only)

Value)	Status Al	arm General Mis	o Prio
Alarm Type	/ Class:	Event / LOW (6291475	0
State Text	Is Alarm Co	ndition Is Fault Cor	idition
OFF (1)	য	V	W
ON (2)	V	N	100
AUTO (3)	V	<u>ସ</u>	
Alarm Dela	<i>y</i> :-	10 5	
Close		Page	e1 💽 🧕 🧯
-		WA. WA. 34	

For Multi-State Inputs and Multi-State Value datapoints the states which represent and set off an 'Off-Normal' and/or a 'Fault' event are displayed.

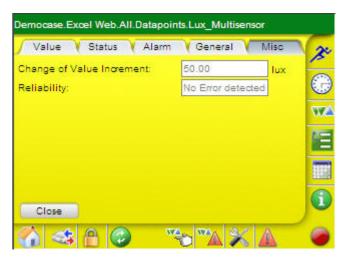
Each state can be set for setting off a 'To-Off-Normal' and/or a 'Fault' event.

For each state, check the conditions by tapping the corresponding radio button.

- 2. Tap the SUBMIT button to save settings.
- 3. To view / edit datapoint values, tap on the *Values* tab (see "View / Edit Values" section.

View Miscellaneous Priorities

Procedure 1. In the *Datapoints* screen of the selected datapoint, tap the *Misc.* tab.



• Value Increment (applies to AI, AO, AV and PC datapoints only)

The COV (Change Of Value) increment specifies the minimum change in present value that causes the controller sending the present value to the CL-Touch, to any other user browser interface and to BACnet clients on the network.

- Period (applies to Pulse Converter datapoint only)
 Defines the amount of time in seconds between the periodic transmissions
 of the present value. This property can be used alone or in combination with
 the Increment property. When the period property is used in combination
 with the increment property, the present value will always be updated
 periodically independent on the transmissions of the present value due to
 the COV setting.
- Reliability (All datapoint types)

Shows whether the hardware assigned to the datapoint is in proper condition or not. Depending on the datapoint type, the following conditions may be displayed:

No Error Detected	Loop is in proper condition, that is, present value is reliable; that is, no other fault has been detected.
No Sensor	Sensor may be not connected
No Output	Hardware may be not connected
Unreliable Other	The controller has detected that the present value is unreliable, but none of the other conditions describe the nature of the problem. A generic fault other than those listed above has been detected, e.g., a Binary Input is not cycling as expected.

Value Statu	s Alarm General	Misc Prio	2
Runtime (Active):	1 : 10 : 32	Reset	-
	himis		E.
Time of last Rese	t; */*/*, *;*;*		77
Polarity:	📀 Normal 🖸 Reverse	÷	_
Reliability:	No Error detected		
Close			6

- Manual Life Safety (applies to AO, BO, MO datatpoints only) Shows the status of the manual override switch or potentiometer of the LON module.
- Feedback Value (applies to BO only). Will be supported in a future version of Excel Web.
- Polarity (applies to BI and BO datapoints only)
 The polarity indicates the relationship between the physical state of the input
 and the logical state represented by the present value. If the polarity is
 NORMAL, then the ACTIVE state of the present value is also the ACTIVE or
 ON state of the physical input. If the polarity is REVERSE, then the ACTIVE
 state of the present value is the INACTIVE or OFF state of the physical
 Input.

Polarity	Present Value	Physical State of Input	Physical State of Device
NORMAL	INACTIVE	OFF or INACTIVE	<u>not</u> running
NORMAL	ACTIVE	ON or ACTIVE	running
REVERSE	INACTIVE	ON or ACTIVE	<u>not</u> running
REVERSE	ACTIVE	OFF or INACTIVE	running

Select polarity by tapping corresponding radio button.

- EOH/EOV Optimization (applies to AV, BV, and MV datapoints) Check whether the datapoint should be optimized (Yes) or not (No), in case the datapoint is used as setpoint for energy optimized heating or ventilation.
- Current Value (applies to PC datapoint only) Shows the current accumulated value of the datapoint.
- Reset To (applies to PC, BI and BO datapoints only) Here you can reset the current value to a specific value. The counting will restart.
- Time of Last Reset (applies to PC, BI and BO datapoints only) Shows the time of the last reset.
- Runtime Counter (applies to BI and BO datapoints only) Here you can view the current runtime and reset the runtime counter to a specific time (e.g. in case of maintenance, change of pump).

To reset the runtime counter, enter the value into the **Reset to** field and tap the **OK** button.

View / Edit Command Priorities

(Applies to AO, AV, BO, BV, MO, and MV datapoint types only)

1. In the *Datapoints* screen of the selected datapoint, tap the *Prio* tab.

Value Status /	Alarm General Misc	Prio
Source	Value	
		6
	10 million (1997)	
	100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100	
	19 (A)	8
	19. Alexandre 19	
	S	
elinguish Default:	Off	3
		6
Close	Page	1 🗨

Here you can view the command priority levels and enter/change the relinquish default value.

The priority list has descending priority. The value on the highest priority level is written to the present value.

- Relinquish Default This value will be written to present value, if all values in the priority list are invalid.
- Enter relinquish default value into the field.
- 2. To save changes, tap the SUBMIT button.

Show Datapoints in Hand

1. Tap the 🔭 icon.

RESULT:

The All Datapoints in Manual screen displays listing all datapoints that are currently set to manual mode, based on the selected filter.

Current Filter:	* HVAC_Contro	ol, Li	Set	
Name	Value/Unit	Status	Туре	
	no ent	ry		
				7
			Page 1 💌	6

2. For detailed description on how to proceed on this screen, please refer to the "View Datapoint List" section.

Parameters

Parameters are used for configuration and tuning of the application program via control loop. A typical example of a parameter is the Integral Time of the PID control function.

Parameters are part of a control icon which itself is part of a control loop which itself is part of a plant, etc. Hence, the parameter can be described and addressed by its path as follows:

plant - control loop - control function - control icon - parameter

A parameter is defined by:

- Symbol type
- Name
- Value/Engineering unit (state text)

Parameters belong to control icons and define the icon behavior. Control icons will be interconnected within a control loop that performs a control program. A control loop itself can also have parameters. Control icons can internally be composed of other icons (control function). For example, a XFM is a control function. Control functions can have max. 4 internal control icons. It will not be distinguished between parameters of input and output control icons. Parameters can be written to and read from the control program. However parameters cannot be prioritized. The parameters origin (location) will be shown as path with the following structure: plant-control loop-control icon.

NOTE:

If no parameters are displayed, one of the following may be the reason:

A) You do not have rights to read control loops and parameters

or

B) All or some of the parameters have been intentionally engineered in CARE not to be displayed in the CL-Touch and the big user interface (browser with 800x600 resolution).

View Parameters List

Parameters lists can be displayed for all plants or for a particular plant.

- Procedure 1. Tap on Parameters icon
 - RESULT:

The *Parameter*screen displays listing the parameters of all plants of the controller by default (limited by the page as selectable in the drop-down list box).

Control Loop:	Temperature Co	ntrol 💌	1
Function:	PID Controller R	oom Temp	E
Symbol Type	Name	Value/Unit	
PID Plus	derivate time (Tv)	0.00	v
PID Plus	integral an time (Tn)	0.00	E
PID Plus	maximum output	100.00	-
PID Plus	minimum output	0.00	
Details		Page 1 💌	

Parameters have the following properties:

Symbol Type

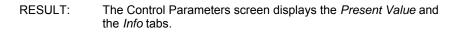
Shows the control icon name which the parameter belongs to.

- Name
 Name of the parameter
- Value/Unit Current value and associated engineering unit (analog) / state text (discrete)
- 2. By tapping the **Details** button, you can view parameter information and change the present parameter value (see "View Parameter Info / Change Parameter Value" section).

View Parameter Info / Change Parameter Value

1. In the *Parameters* screen, tap the parameter, and then tap the **Details** button.

Function: Hest_Cool Sequence Symbol Type Name Value/Unit Sequence segment 1 Xa 0.00 Sequence segment 1 Xb 48.00	
Sequence segment 1 Xa 0.00	CONSISTENCE CONTRACTOR CONTRA
Sequence segment 1 Xb 48.00	nce segment 1 Xa 0.00
	nce segment 1 Xb 48.00
Sequence segment 1 Ya 100.00 -	nce segment 1 Ya 100.00
Sequence segment 1 Yb 0.00	noe segment 1 Yb 0.00





2. To change a value, enter the new value in the **New Value** field on the *Present Value* tab.



3. Tap Submit button.

4. To view parameter information, tap Info tab.



The parameter information shows the following properties:

- Name
- e.g. segment 1.xb
- Plant
- e.g. HVAC_Control
- Control Loop
- e.g. Temperature Control Parameter Path
- e.g. Heat Cool Sequence
- Symbol Type
 - e.g. Sequence

Example:

If a parameter, for example, segment 1.xb, belongs to the symbol type 'Sequence' which is part of the control macro 'Heat_Cool Sequence', which is subprogram of control loop 'Temperature Control' which controls the plant 'HVAC_Control', the following is shown:

Symbol Type:	Sequence
Parameter Path:	Heat_Cool_Sequence
Control Loop:	Temperature Control
Plant:	HVAC_Control

5. Tap Close button.

Alarms

View Datapoints in Alarm

1. Tap the 🚾 icon.

RESULT:

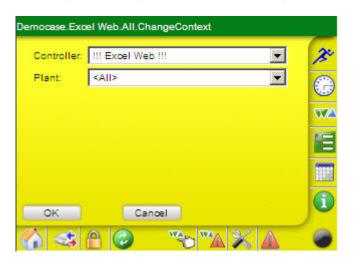
The *All Datapoints in Alarm* screen lists all datapoints that are currently in alarm, based on the selected filter.

Name	Value/Unit	Status	Type
Frost	Frost	Off Normal	BI
Heating_Valve	100.00 %	High Limit	AO
Lightetpoint	100.00 lux	Low Limit	AV
Lux_Muisensor	0.00 lux	Low Limit	AI
Outdooerature	0.00 °C	Low Limit	AI

2. For detailed description on how to proceed on this screen, please refer to the "View Datapoint List" section.



- 1. Tap the icon.
 - RESULT:
- JLT: The screen for selecting the controller and plant of which system alarms you want to show, is displayed.



- 2. Tap the Controller drop-down list box and select the controller.
- 3. Tap the Plant drop-down list box and select the plant.

- 4. Tap the OK button.
 - RESULT: The *All Alams* screen displays showing all current system alarms.

Current Filter:	Only New	Set	1
Time	Category:	Source (Alm Text)	
04/28/2008 15:24:29	Low	Lux_Multisensor	E
04/28/2008 15:24:29	Low	Light_Setpoint	
04/28/2008 15:24:29	High	SupplyAirTemperature	
Total in But	fer:	6	
New since Is Details	ast refresh:	0 Page 1 💌	

For each system alarm, the following properties are shown in the list:

• Time

Shows the time, when the alarm has occurred. Newer alarms are highlighted in red. By tapping on the entry, alarm details can be viewed.

- Category Shows the category of the alarm:
 - Urgent
 - Alarm has urgent priority (range 0...84)
 - High
 Alarm has high priority
 - Alarm has high priority (range 85...169) – Low
 - Alarm has low priority (range 170...250)
- Source
 - Shows the datapoint name
- Alarm Text

Shows the alarm message as defined in the Engineering tool.

Under **Current Filter** you can create an alarm filter for displaying alarms by status (new, all), category (urgent, high, low) and by time range in the alarm list.

5. Tap the Set button.

RESULT:	The All Alarms	Filter screen displays.

Filter by:				1
Status:	Only New 💌			
Category::		Set	Reset	
Date/Time:	<not set=""></not>	Set	Reset	

- 6. In the Status drop-down list box, tap the status under:
 - Only New
 - Displays new alarms of the defined time range.
 - All Displays all alarms, regardless of their status, of the defined time range.
- 7. In the Category drop-down list box, tap the Set button.

RESULT: The All Filter Category screen displays.

Alarm filter by category:	20
Vrgent (063)	(
Figh (64127)	
🔽 Low (128. 191)	
Journal (192265)	
OK Cancel	

- 8. Tap the category under:
 - Urgent
 - Displays alarms with urgent priority
 - High
 - Displays alarms with high priority
 - Low Displays alarms with low priority
 - Journal Displays alarms with journal (lowest) priority
 - NOTE: When all categories are selected, there will be no entry in the **Category** field.

- 9. Tap the OK button.
- 10. Right to the Date/Time field in the All Alarms Filter screen, tap Set button.
 - RESULT: The All Filter Time screen displays.

	00000.000	date/t	time			100-0	_	
Fre	om Dat	e:/		T	ime:			
То	Date:		1		ime:	:	:	4
		_	_		_	_		
0		2	3	4	E	B		
0		2	3	4	E			
0	1	2	3	4				

- 11. Tap the From Date and To Date checkboxes.
- 12. Enter the dates in the first three fields and the times in the last three fields

	filter by			<u></u>					
Frc	om Date	04	27	2008	Time:	15	: 32	: 30	
7 То	Date:	04	28	2008	Time:	15	: 32	30	
0		2	E	3 4) (±		⊢]		
0	1	2		3 4			← ×		

NOTES:

If the **From Date** checkbox is unchecked, the fields are disabled. This means that alarms of any date up to and including the end date will be displayed.

If the **To Date** checkbox is unchecked, the fields are disabled. This means that alarms of any date from the start date on will be displayed.

If both fields are disabled, all alarms of the alarm buffer will be displayed.

13. Tap the OK button.

14. In the All Alarms Filter screen displays, tap the OK button.

RESULT: The All Alarms screen redisplays showing the filtered alarms.

Current Filter:	Only New	Set	1
Time	Category:	Source (Alm Text)	
04/28/2008 15:24:29	Low	Lux_Multisensor	E.
04/28/2008 15:24:29	Low	Light_Setpoint	-
04/28/2008 15:24:29	High	SupplyAirTemperature	
Total in Buf	fer:	8	1
New since Ia Details	ast refresh:	0 Page 1 💌	

- 15. To view alarm details, tap the alarm in the list, and then tap the Details button.
 - RESULT: The individual screen of the system alarm displays. By default, the *General* tab is selected.

Alarm Source:	Lux Multisensor	1
Event Type:	Out of Range	C
Adknowledged:	Not Required	V
Category:	Low (128191)	
Priority:	128	
		6

On the General tab, the following properties are shown:

- Alarm Source
- Shows the name of the datapoint that caused the alarm
- Event Type
 - Different datapoints may cause different event types as shown in the following:
 - Change of state Present value has changed to a new state for longer than the time delay. Can be caused by BI, BO, BV, MI, MO, and MV.
 Out of range
 - Present value has exceeded range between high limit and low limit for longer than the time delay. Or, present value has returned between the high limit - deadband and the low limit + deadband range for longer than the time delay. Can be caused by AI, AO, and AV.
 - Command failure
 Present value differs from feedback value for longer than the time delay.
 Can be caused by AO, BO, MO.

- Acknowledged (Not required)
 - NOTE:

Alarm acknowledgement is not applicable, hence alarms are set to NO by default.

- Category
- Shows the category:
 - Urgent
 - Alarm has urgent priority (range 0...84)
- High
 - Alarm has high priority (range 85...169)
- Low
 - Alarm has low priority (range 170...250)
- Priority

Depending on the category, the alarm states NORMAL, OFF-NORMAL, FAULT have different values in the corresponding priority range. Hence, the priorities of the transitions (changes from one state to another state) are as follows:

	Transitions			
Event (Alarm) Category	To Normal	To Off-Normal	To Fault	
Urgent (range 084)	83	0	42	
High (range 85169)	168	86	127	
Low (range 170250)	250	171	210	

16. Tap the Transition Causing Alarm tab.

From / To State:	Normal/Low Limit		_
Exceeded Limit of:		lux	6
y:	100.00	lux	π
Deadband:	10.00	lux	100
Status Flags:	In Alarm In Overridden Coverridden		Tana I
			6

On the Transition Causing Alarm tab, the following properties are shown:

• From / To State Describes the event transition causing the alarm.

Examples: From Normal to Off-normal From Off-normal to Normal

- Exceeded Limit of
- by
- Deadband

New Value

In these fields, the values that caused the alarm are displayed. The engineering unit depends on the datapoint type. For example, for an alarm of a light sensor, the values are shown in lux.

NOTE:

Shows the value and unit. In case of BI, BV, MI, MV, it may be a new value, in case of AI, AO, AV it may be an exceeding value, in case of BO, MO, it may be a command value.

Status Flags

Shows the set status flags:

In Alarm

When enabled, the datapoint is in alarm. Cause can be faults and Off-Normal conditions.

Fault

When enabled, the datapoint or the physical input is not reliable, e.g. in case of sensor break (Open Loop).

- Overridden When enabled, the datapoint is in manual operating state. The value has been overwritten.
- Out of Service

When enabled, the physical input is decoupled from the datapoint, e.g. in case of manual override for inputs. The present value displayed is not the present value, which would be delivered by the physical input.

NOTE: Multiple flag indications may be possible.

Example:

A 'To-Fault transition' causes also always an alarm. Hence both, the 'In Alarm' and the 'Fault' status flags are enabled.

17. Tap the Alarm Text tab.



On the Alarm Text tab, the following properties are shown:

- Alarm Text
- Shows the alarm text entered with the engineering tool.
- Alarm Description Shows the alarm text optionally entered with the engineering tool.
- 18. Tap Close button after having viewed the alarm details.

SERVICE FUNCTIONS

The following service functions allow updating the application software of the CL-Touch, and setting up and changing the Windows CE configuration. By default and by intention, the Windows CE (WIN CE) operating system is hidden from the user. Without the procedure described in the following section it is not possible to get access to the desktop of the WIN CE operating system.

For both service functions, application software updates and Windows CE configuration modifications, you need to perfom the steps described in the "Initial Steps" section.

Software contained

The CL-TOUCH does contain the following software packets:

- Application Software
 - The application software contains the following functionality:
 - Operation screens for the Excel 50/500/800 controllers
 - Configuration screens for the set-up of Excel Web
 - Local language version(s) for all listed above
 - Interfaces to WIN CE, like back-light adjustment, IP-settings, etc.
 - Examples for the application software are "2.0.3.0_Europe"
- WIN CE Application Starter ("Appstarter.exe")
 - It automatically loads the Application software and hides the desktop from the user
- WIN CE 5.0 Professional Operating System ("WIN CE Image")
 - It has been specially adapted to the hardware of CL-TOUCH and will not run on any other hardware.
 - Among other items it contains the local language support more precisely it contains several WIN CE images in local language.
- WIN CE Bootloader
 - After power-up, it loads the WIN CE image into RAM and lets it start.

Initial Steps

Do not rename any directories and files. Otherwise the unit may stop working.

1. Take an USB memory stick that is supported by the WIN CE operating system of CL-TOUCH.

The following USB memory sticks have been used successfully:

- Toshiba U3 Smart, 1GB (This stick is also used for CARE licensing)
- Iomega, 128MB to 512 MB
- Scandisk, 128 MB to 512 MB
- Kingston 128 MB to 512 MB
- Hitachi HTS 541040G9AT00, 32 MB
- Red, thick Honeywell USB stick, 64 MB

When using any other stick, you have to find it out by trial and error, if it works properly.

2. Unpack and copy the following files onto the memory stick:

admin.ini

The *Admin.ini* file is a simple *TXT* file, which only has to contain the following information in the first line:

Mode=Development

This file must be in the root directory of the USB stick, because when CL-TOUCH is booting, WIN CE will search for this file, and then allows access to the WIN CE desktop.

NOTE: The admin.ini file entry and file name is case-sensitive.

3. Disconnect power from the CL-TOUCH, and then re-connect power to the CL-TOUCH.

The device is booting. Firstly, the Win CE image is loaded from the device's Flash drive into the RAM, while the Honeywell / CentraLine logo is displayed. Secondly, WIN CE is started, while the Honeywell / CentraLine logo is displayed. Thirdly, the screen goes black for about three seconds. Now the **Press For Setup Main Menu** button appears for only 5 sec. and is active.

4. Tap the Press For Setup Main Menu button within 5 sec. If you miss the time slot of 5 sec., disconnect and re-connect power to let the device boot again.

After successfully tapping the **Press For Setup Main Menu** button, the *Setup-Main* menu is displayed.

Setup Main			
Up date	Exit		
Touch Screen & Registry	Settings		
Network Settings	Start Batchfile		

- 5. For CL-TOUCH application software updates, tap the Exit button. Continue with the steps described in the "Update CL-TOUCH Application Software" section.
- For Windows CE modifications and updates, continue with the steps described in the "Update Windows CE Image" and "Setup / Change the Windows CE Configuration" sections.

How to identify Software Versions

How to identify the CL-TOUCH Application Software Version

The CL-TOUCH application version is displayed on the screen during the auto detection phase (after the CL-TOUCH has booted).

See example screenshot on next page:

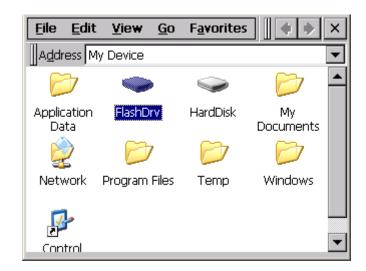


How to identify the WIN CE Application Starter Version

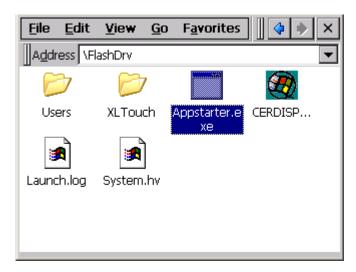
- 1. Get into Desktop mode see chapter "Initial Steps".
- 2. Double tap "My Device".



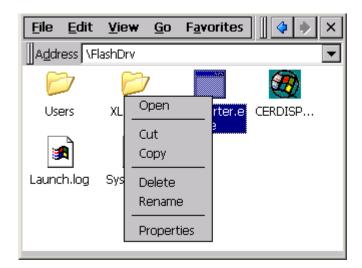
3. Double tap "FlashDrv".



4. Single tap on the "Appstarter.exe".



5. Keep your finger or stylus on the Appstarter.exe icon until the options dialogue pops up, and then tap on "Properties".



6. Identify "Appstarter.exe" version (scroll to right side of screen).

<u>F</u> ile <u>E</u> d	it <u>V</u> iew	<u>G</u> o	Favorites	×
Appstart	er.exe Pro	operti	ies	
Propertie	s			
	Appstarte	r.exe		
Type:	Applicat	ion		
Location	i: \FlashDr	v		
Size:	6.50KB			
Modified	I: 2/6/200)8 5:2	2:28 PM	

How to identify the WIN CE Image Version

1. Get into Desktop mode - see chapter "Initial Steps".

Ø	P		
My Device	Internet Explorer		
7			
Recycle Bin	launch		
desktop			

2. Double tap "launch".

My De	LaunchTouch V1.6 OK	
1	Admin	
Recycle		
	Press For Setup Main Menu	
deskt		

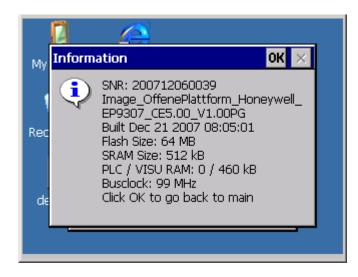
3. Tap the "Press For Setup Main Menue" button.

My De ^r	Cetup-Main		
2	Update	Exit	
Recycle	TouchScreen & Registry	Settings	
deskt	Network Settings	Start Batchfile	

4. Tap the "Settings" button.

0 My De	CALL Settings		
7	Contrast	Home	
Recycle	Date / Time	Printer	
deskt	Password	Information	

5. Tap the "Information" button.



6. Identify the WIN CE image version.

How to identify the WIN CE Bootloader Version

- 1. Power-up the CL-TOUCH
- 2. The Bootloader version is displayed while the WIN CE image is loaded from FLASH into RAM (BEFORE WIN CE is booting from RAM).

Device: TP57AT BOOTLOADER_V1.14 Built Mar 6 2008 15:52:56 Version User
MAC Address
0-7-92-0-2A-5A
Loading Image
by Honeywell

How to Update Software

Update CL-TOUCH Application Software

The CL-TOUCH application Files will have a naming like CLMMI00N31_V_2_0_3_0_Europe.zip, depending on the version you are picking.

1. Get the CL-TOUCH application files from the software download area and extract them and copy them onto a USB memory stick.

After extraction you will find the folder like 'Honeywell 2.0.1.0'

😂 TOSHIBA (F:)					×
<u>File E</u> dit <u>Vi</u> ew F <u>a</u> vorites <u>T</u> ools <u>H</u> elp					
🚱 Back 🝷 🕥 🖌 🏂 🔎 Search 🔀 Fold	iers 🔢 -				
Address 🖙 F:\				💌 🄁 Go	
Folders ×	Name	Size	Туре 🔻	Date Modified	
🕝 Desktop	CLMMI00N31_V2_0_3_0_Eur	1.910 KB	WinZip File	15.04.2009 11:42	
E Concernents	🔳 honeywell_XF8_1_3.wmv	8.923 KB	Windows Media Aud	29.03.2007 09:16	
	IUT_EPICS_XL-Web_XLWebSt	29 KB	TPI File	04.06.2008 13:42	
E 🛃 My Data Dources	IUT_EPICS_XL-Web_XLWebSt	29 KB	TPI File	04.06.2008 13:30	
E 📴 My Pictures	WINCE_update_pr	335 KB	Microsoft Word Doc	12.03.2008 14:31	
I I I I I I I I I I I I I I I I I I I	XLTouch_CLTouch_software	1.257 KB	Microsoft PowerPoi	22.09.2008 10:24	
	Meerbusch_XL800_XLWEB_2	9.651 KB	Microsoft PowerPoi	27.02.2009 09:53	
	🗿 admin.ini	1 KB	Configuration Settings	14.12.2007 15:47	
	💽 LaunchU3.exe	928 KB	Application	24.05.2006 12:36	
	Appstarter.exe	7 KB	Application	06.02.2008 17:22	

USER GUIDE

🗢 TOSHIBA (G:)	> TOSHIBA (G:)				
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> ools	File Edit View Favorites Tools Help 🥂				
🕞 Back 👻 🕥 🖌 🏂 🔎 Se	🕞 Back 🔹 🕥 🖌 🏂 Search 📂 Folders 🛛 🎹 🗸				
Address 🖙 G:\			💌 🄁 Go		
	Name 🔺	Size Type	Date Modified		
File and Folder Tasks 🛛 😤	2_0_01_0_FRENCH	File Folder	07.07.2008 11:33		
🖼 Departs this folder	🚞 ApplicationDnloadFiles	File Folder	30.04.2008 13:46		
Rename this folder	🚞 ApplicationUploadFiles	File Folder	30.04.2008 13:46		
🔯 Move this folder	🚞 Bootloader	File Folder	16.04.2008 15:02		
Copy this folder	🛅 FirmwareDnloadFiles	File Folder	30.04.2008 13:47		
🔕 Publish this folder to the	🚞 FirmwareUploadFiles	File Folder	30.04.2008 13:47		
Web	Honeywell 2.0.1.0	File Folder	18.07.2008 10:29		
😂 Share this folder 🔂 🦳 Image		File Folder	16.04.2008 15:02		
🛜 E-mail this folder's files	🚞 ParameterFiles	File Folder	06.06.2008 11:47		
🗙 Delete this folder	RemoteAccess	File Folder	07.08.2008 13:17		
	C System	File Folder	03.04.2007 21:51		

2. Double-tap the *Honeywell* 2.0.1.0 folder and you will find the *XLTouch* folder, which you must copy onto CL-Touch.

NOTE: You must copy the XLTouch folder with all of its files and directories.

3. Perform the "Initial Steps"

After finishing step 6 with tapping the **Exit** button, the Windows CE desktop is visible.



The folders shown in the below screenshot are displayed.

4. Double-tap on the "MyDevice" icon.

Flashdrv is the Flash memory of CL-Touch and *HardDisk* is your USB memory stick.



5. Double-tap on *Flashdrv.*, and then erase the *XLTouch* folder.

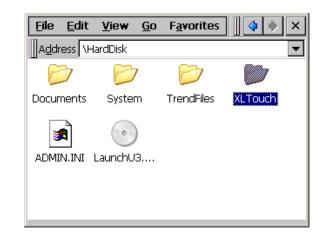
<u>F</u> ile <u>E</u> dit	<u>V</u> iew <u>G</u> o) F <u>a</u> vorites) 🔷 🔶 🗙
Address 🛛	FlashDrv		•
\triangleright			
Users	XLTouch	Appstarte	CERDISP
Launch.log	System.hv		

Do not restart CL-TOUCH without the XLTouch folder. If you decide to do this anyway, empty the XLTouch folder and copy into it the new files and directories from the new CL-TOUCH software. Make sure that the XLTouch directory is exactly named and not renamed.

6. Double-tap on *HardDisk*, which is your USB stick.



7. On the HardDisk folder, select the XLTouch folder



8. Copy and paste the XLTouch folder to the folder Flashdrv\XLTouch.

NOTE: You must copy the XLTouch folder with all of its files and directories.

- **9.** Remove the USB memory stick, and disconnect/re-connect power to CL-Touch. The device will boot now and after booting is complete, it will display the *Auto Detection* screen for Excel Web / Excel 500 / Panther controllers:
 - If an Excel 500 controller/Panther is connected, it will start the operation.
 - If an Excel Web controller is connected, it will start the IP configuration or start the browser with all IP settings that are already matching
 - If both, EXCEL 500 / Panther and Excel Web controllers are connected, it will give you the choice for operation of one of them.

Update Windows CE Image and Bootloader

Make sure that the following directories exist (or are created) on the USB memory device:

- Bootloader (must contain the bootloader file)
- Image (must contain the WIN CE image file)
- 1. Perform steps 1 through 6 of "Initial Steps" section if not already done.

After finishing step 6 with tapping the **Exit** button, the Windows CE desktop is visible.



Updating Boot Loader

2. Tap on *Launch* icon. The following screen displays.

LaunchTouch V1.6	ОK
Adr	nin
Press For Setup Main Menu	

3. Tap Press For Setup Main Menu button to display the Setup-Main screen.

Setup-Main			
Update	Exit		
TouchScreen & Registry	Settings		
Network Settings	Start Batchfile		

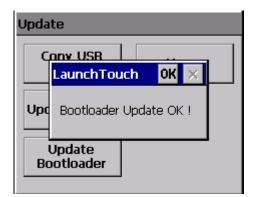
4. Tap Update button to display the Update screen.

Update	
Copy USB Stick	Home
Update Image	
Update Bootloader	

5. Tap Update Bootloader button. The following message box displays.

U	pdate		
ſ	ок ×		
	Press OK to update Bootloader Don't turn off the device while updating!		
	Bootloader		

6. Tap OK button. The following message box displays



7. Tap OK button.

Updating OS Image

8. In the *Update* screen, tap **Update Image** button.

Update	
Copy USB Stick	Home
Update Image	
Update Bootloader	

The following screen displays.

Update Image
Press OK to update Image
OK Cancel

9. Tap **OK** button. The image updating is started and the progress is indicated as shown in the following message box.

Update Image		
Update in progress This could take several minutes! Don't turn off the device while updating!		
OK Cancel		
Update Image		
Lindate in progress		
LaunchTouch OK 🔀		
Default Registry restored	-	

- **10.** Tap **OK** button after successful completion of the registry restoration.
- **11.** Tap **OK** button after successful completion of the image update as shown in the following message box.

Update	e Image
This	Lindate in progress launchtouch OK X Ps! ile
	Image Update OK !
	OK Cancel

12. Tap Home button in the Update screen to return to the Setup-Main screen.

Update	
Copy USB Stick	Home
Update Image	
Update Bootloader	

Setup-Main		
Exit		
Settings		
Start Batchfile		

13. Tap Exit button to return to the Win CE desktop.

Updating Appstarter.Exe

14. Copy "*Appstarter.exe*" file from the root of the USB Memory stick to the root of "Flashdrv" drive in the CL-TOUCH device. If there is an existing "Appstarter.exe" file, you will be asked to overwrite the existing file. Overwrite the file.

Verification of Successful CE Image Update

15. Apply a power cycle on the device to restart the device. Do not remove the USB stick during this restart. After restarting the device, the *Touch Screen Calibration* screen displays. Calibrate the touch screen. You are forwarded to the Win CE desktop after the calibration is finished. Remove the memory stick from the device and apply a power cycle again. The device will switch back to normal mode after two automatic restarts.

Update the Appstarter.exe

The Appstarter.exe file lies in the root directory of the Flash Drive of the CL-TOUCH, and it must be in the root directory of the CL-TOUCH. If it is missing, or not in the root directory, the CL-TOUCH application will not start after power-fail, and the CL-TOUCH will remain in the desktop mode.

<u>Eile E</u> di	it <u>V</u> ie w <u>G</u> o	F <u>a</u> vorites	• 🔶 ×
Address	My Device		•
\triangleright	\bigcirc	\bigcirc	📂 🔺
Applicatior Data	n FlashDrv	HardDisk	My Documents
	\triangleright	\triangleright	\geq
Network	Program Files	Temp	Windows
_			
Control			-

In case of an update is required, copy the new Appstart.exe into the FlashDrv.

<u>F</u> ile <u>E</u> dit	<u>V</u> iew <u>G</u> o) F <u>a</u> vorites	🔷 🔶 🗙
Address \Fl	ashDrv		•
\triangleright	\triangleright		A
Users	XLTouch	Appstarter.e xe	CERDISP
Launch.log	System.hv		

Setup / Change Windows CE Configuration

1. Perform steps 1 through 5 of the "Initial Steps" section if not already done.

After finishing step 5 with tapping the **Press For Setup Main Menu** button, the *Setup-Main* menu is displayed.

Setup Main		
Up date	Exit	
Touch Screen & Registry	Settings	
Network Settings	Start Batchfile	

Fig. 148. Setup Main

NOTE: Various settings are password-protected. The password is: "+-+-".

In the subsequent sections, all menu functions are described in detail.

Update

Update			
Copy USB Stick	Home		
Update Image			
Update Bootloader			

Update Fig. 149. Update

Copy USB-Stick

Copies data from the USB-Stick to the internal Flash file system. Multiple projects can be administered in separate sub directories of the *TSvisRT* directory. If more than one project is located in different sub directories, a selection dialog shows up. In this dialog, only directories which contain a project file (*xxxx.cb*) are displayed. The complete *TSvisRT* directory, respectively the corresponding sub directory and the AppStarter.exe file is copied to the *TSvisRT* target directory of the flash file system.

Copy USB Stick		
	Copy to Flash	Home
	Copy to USB	
	lmport Settings	

Fig. 150. Copy USB Stick

Update Image

If a file named *xxxx.nb0* is located in the *Image* sub directory on the Memory Stick, the image-update is executed with this file. Only one instance of the *xxxx.nb0* file is allowed in this directory.

During this execution, the Flash Registry is disabled so that the Image will work with a new Default Registry.

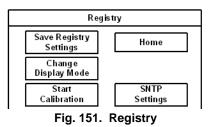
You will be informed after the successful update has been finished.

Update Bootloader

If a file named *xxxx.nb0* is located in the *Bootloader* sub directory on the Memory Stick, the bootloader-update is executed with this file.

You will be informed after the successful update has been finished.

Touch Screen & Registry



Save Registry Settings

The registry is completely saved.

Change Display Mode

Sets the display direction.

LCD Saver sets the brightness to the lowest value if no entries have been made for one hour.

NOTE: This function is password-protected.

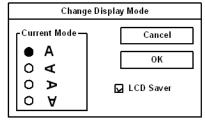


Fig. 152. Change Display Mode

Start Calibration

The calibration of CL-Touch is started. After the calibration, the values will be saved to the registry automatically.

SNTP Settings

You can enter the name for a time-server located in the Intranet or Internet. Enter the interval for the synchronization in min.

NOTE: This function is password-protected.

SNTP Settings		
Server myserver.myhost.local		
Interval [minutes] 5		
0	Cancel	-

Fig. 153. SNTP Settings

Network Settings

Network Settings		
TCP/IP Info	Home	
Fix Settings	FTP Settings	
DHCP	Device Name	

Fig. 154. Network Settings

TCP/IP Info

Displays the following information:

- MAC Address
- IP Address
- Subnet Mask
- Device name
- **DHCP-Status**
- Gateway
- DNS
- WINS

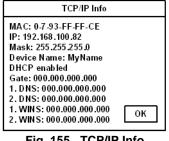


Fig. 155. TCP/IP Info

Fix Settings, IP Address

DHCP is disabled and if an USB-Stick is present, the settings of the IPSetting.ini file are taken. This file must be in the Root-directory of the USB-Stick. If not USB-Stick is inserted, the information is retrieved from the registry.

NOTE: This function is password-protected.

IP Address			
IP Address	s 000.000.000.000		
Subnet Mask	000.000.000.000		
ок	Cancel		

Fig. 156. IP Address

Contents of IPSetting.ini file:

[IPCONFIG] IPAddress=172.016.042.150 SubnetMask=255.255.255.000

All addresses must apply to the format "xxx.xxx.xxx.xxx". For numbers smaller than 100, leading zeroes must be added.

Example: 192.168.42.1 -> 192.168.042.001

Fix Settings, Gateway

DHCP is disabled and if an USB-Stick is present, the settings of the IPSetting.ini file are taken. This file must be in the Root-directory of the USB-Stick. If not USB-Stick is inserted, the information is retrieved from the registry.

NOTE: This function is password-protected.

Gateway		
	Change Default Gateway	
000.000.000.000		
	OK Cancel	

Fig. 157. Gateway

Contents of IPSetting.ini file:

[IPCONFIG] Gateway=172.016.042.150

All addresses must apply to the format "xxx.xxx.xxx.xxx". For numbers smaller than 100, leading zeroes must be added.

Example: 192.168.42.1 -> 192.168.042.001

Fix Settings, DNS

DHCP is disabled and if an USB-Stick is present, the settings of the *IPSetting.ini* file are taken. This file must be in the Root-directory of the USB-Stick. If not USB-Stick is inserted, the information is retrieved from the registry.

NOTE: This function is password-protected.

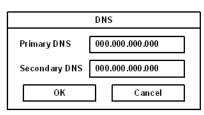


Fig. 158. DNS

Contents of *IPSetting.ini* file:

[IPCONFIG] PrimaryDNS=172.016.042.150 SecondaryDNS=172.016.042.151

All addresses must apply to the format "xxx.xxx.xxx.xxx". For numbers smaller than 100 must be added.

Example: 192.168.42.1 -> 192.168.042.001

Fix Settings, WINS

DHCP is disabled and if an USB-Stick is present, the settings of the *IPSetting.ini* file are taken. This file must be in the Root-directory of the USB-Stick. If not USB-Stick is inserted, the information is retrieved from the registry.

NOTE: This function is password-protected.

WINS		
Primary WIN S 000.000.000.000		
Secondary WINS	000.000.000.000	
ок	Cancel	

Fig. 159. WINS

Contents of IPSetting.ini file:

IPCONFIG] PrimaryWINS=172.016.042.150 SecondaryWINS=172.016.042.151

All addresses must apply to the format "xxx.xxx.xxx.xxx". For numbers smaller than 100, leading zeroes must be added.

Example: 192.168.42.1 -> 192.168.042.001

DHCP

DHCP is disabled. The setting must be saved via the **Save Registry Settings** command.

NOTE: This function is password-protected.

DHCP		
DHCP enabled Save registry and restart device to work with new parameters OK		
Fig. 160. DHCP		

FTP Settings, Add new user

Adds a new user. A password must be assigned to the new user.

After a user name has been created, you cannot access a FTP-Server as 'anonymous'.

Add new user		
Enter User	MyN ame	
EnterPassword	*kkk	
Confirm Password	****	
OK Cancel		

Fig. 161. Add new user

FTP Settings, List all users

All users are listed in a DOS window.

FTP Settings, Delete a user Deletes a user.

NOTE: This function is password-protected.

Delete a user		
Enter User	MyName	
EnterPassword		
Confirm Password		
OK Cancel		

Fig. 16	62. De	lete a	user
---------	--------	--------	------

Device Name

A device name with max. 14 characters can be created. You can allocate the device via FTP Server by entering the device name instead of the IP address.

NOTE: This function is password-protected.

Device name	
Enter Device Name	
MyDeviceName	
ок	Cancel

Fig. 163. Device Name

Settings

Settings	
Contrast	Home
Date / Time	Printer
Password	Information
Fig. 164. Settings	

Contrast

Selects the color depth of TFT-Displays

To ensure a proper display in case of false values, default values for contrast and brightness will be applied for the operating mode Setup Main. If you change a value, you must confirm this in the dialog below.

NOTE: This function is password-protected.

Contrast	
Contrast	Brightness
15	15 🔺
Color Depth 8 bpp 16 bpp	
OK Apply Cancel	

Fig. 165. Contrast

Date / Time

Sets the date, time and time zone.

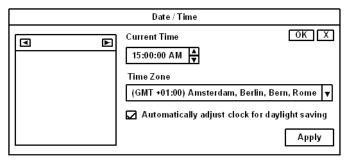


Fig. 166. Date / Time

Password

The password can be enabled, disabled or newly created. If the password is enabled, all password-protected dialogs are accessible per password input only.

NOTE: This function is password-protected.



Printer

Branching to "Page Settings" and "Network Print".

NOTE: This function is password-protected.

Printer	
Page	Network
Settings	Print
Hor	ne

Fig. 168. Printer

Printer, Page Settings

Selects the paper format, either Letter or A4. Defaults to Letter.

The setting is saved in the registry.

Page Settings	
Page Settings: 🌒 Lo O A	
OK Cance	ł

Fig. 169. Page Settings

Printer, Network Print

Inputs of the Network Printer Path.

The setting is saved in the registry.

Network Print
Network Printer Path:
Network Server Login
OK Cancel

Fig. 170. Network Print

Printer, **Network Print**, **Network Server Login** Defines the network login for the network printing.

Enter User Name, Password and Domain an.

The setting is saved in the registry.

Network Server Login	
User Name:	
Password:	
Domain:	
ОК	Cancel

Fig. 171. Network Server Login

Information

Displays the following Information:

- SNR = Serial number (Product-ID)
- Image version
- Built version
- Built date
- Flash size
- SRAM
- PLC / Visu RAM size
- Bus-clockrate

Information	
SNR: 1023456789 Image_Grafikpanel_EP9307_CE5.00_ V1.18 Built: Aug 27 2007 14:00:00 Flash Size: 16 MB SRAM Size: 512 kB PLC / VISU RAM: 0 / 460 kB Busclock: 49 MHz Click OK to go back to main	

Fig. 172. Information

Start Batch

If present in the *FlashDrv* directory, the *project.bat* file is executed.

Manufactured for and on behalf of the Environmental and Combustion Controls Division of Honeywell Technologies Sàrl, Rolle, Z.A. La Pièce 16, Switzerland by its Authorized Representative:

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