Honeywell

evohome
MULTI-ZONE TOUCH SCREEN CONTROLLER

GENERAL

The Honeywell evotouch controller is a modern designed programmable multi zone controller.

evotouch is providing a very explanatory touch-screen display allows for intuitive, easy and self explanation operation by finger tip or by touch-pen.

It's available both as a table or wall device in polished black, brushed metal and gloss white

It will control your heating system efficiently by providing maximum comfort and energy saving.

A total of up to eight individual temperature zones and time programs can be set up.

The evotouch controller is part of the individual room control system in the form of evohome.

The evohome system enables control of underfloor heating, radiators, zone valves, boiler feedback and mixer circuits.

evotouch is like the other peripherals of the evohome system equipped with our proven wireless RF (Radio Frequency) technology based on 868MHZ.

Once everything is set up, the end consumer can use the evotouch controller to easily regulate his respective comfort requirements.

FEATURES

- **evotouch controller for individual zoning control up to 8 zones.**
- **Intuitive local language operating menu structure and user guided programming.**
- **Large touch screen display with easy to read zone and temperature information.**
- **Modern design with exchangeable front covers.**
- **Simple binding operation to reduce installation time and costs.**
- **Applicable for radiators, underfloor heating and mixing valve control in home or office environment with optional control for boiler, heat pump.**
- **Proven wireless communication (no disruption of interior decor, ideally suitable for existing homes).**
- **Prepared for new functionalities via PC link.**
- **Optimized heating control, can lower the heating costs.**

SPECIFICATIONS

ELECTRICAL

Electrical voltage supply: 4VDC ± 0,2V, max. 2,6W

Battery: 2x rechargeable battery
AA 1.2V NiMH
Recommended 2000m-2400mAh

RF Communication

Frequency: ISM (868,0 – 870,0) MHz,
1% duty cycle, Transceiver

Receiver class: RC class 2

RF communication range: 30 m in a residential building environment

RF communication: short, high rate transmission to

Technology: minimize air time and avoid collisions

Display

Touch screen: LCD gray scale graphic backlit display , 16 levels
480 x 272 pixel
96 x 56 mm display area

HARDWARE INTERFACE

USB connection: Device
Hardware upgrade: sub module

ENVIRONMENTAL and STANDARDS

Operating temperature: 0 … +40 ºC
Shipping and Storage Temperature: -20 … +50 ºC
Humidity: max. 10 … 90 % relative humidity non condensing

CERTIFICATION

Meeting the following Standards: CE approved
RoHS-complaint

TEMPERATURE CONTROL

Internal room temperature
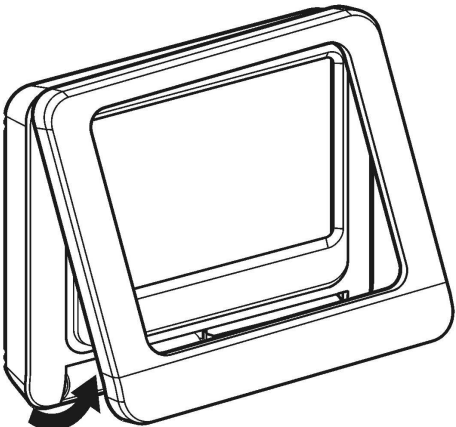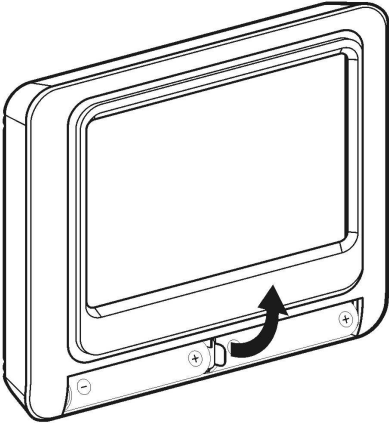**Sensor:** (NTC) operating range
0 ℃ to 40 ℃

MECHANICAL DATA

Dimensions (WxHxD): 139 x 101 x 21mm (WxDxH)
Material: PC141R
IP class: IP 30

OPTIONS

Mounting: table top stand
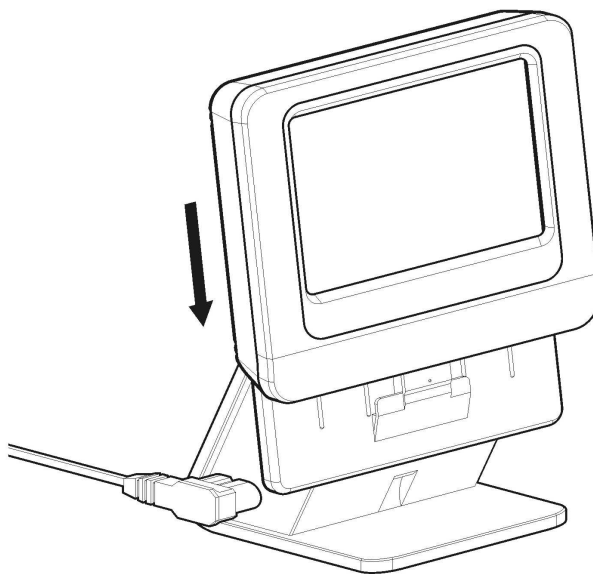
Installation instructions

Batteries and front cover

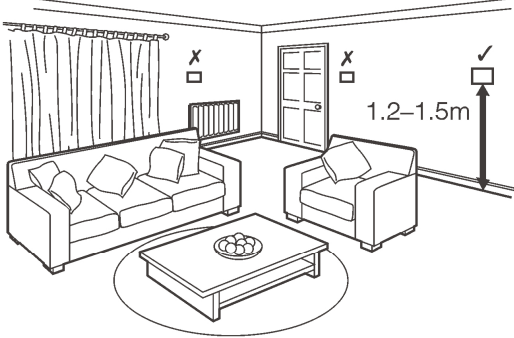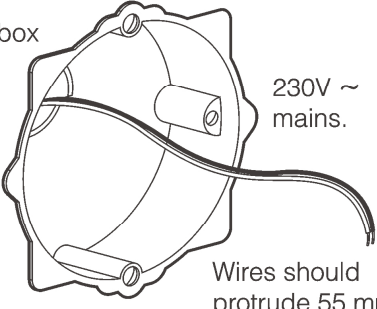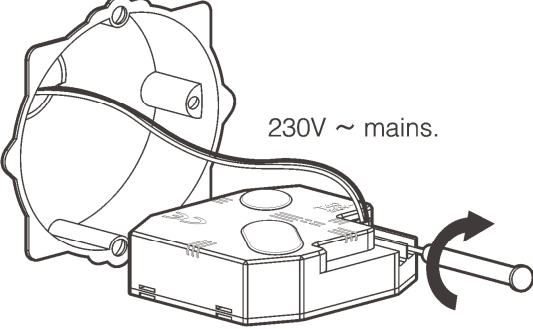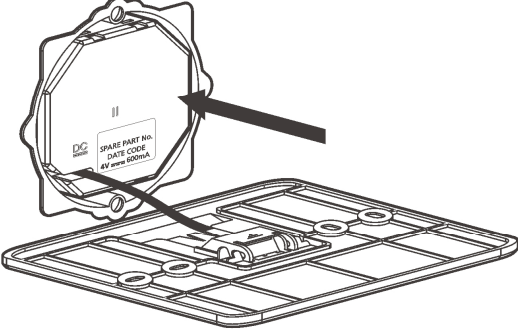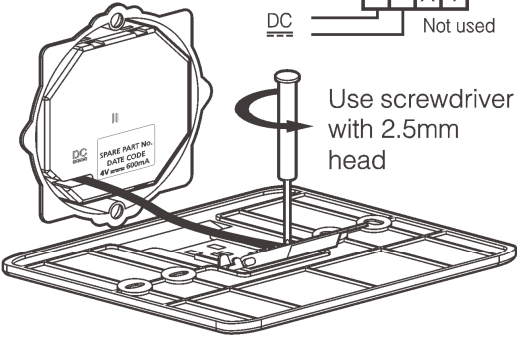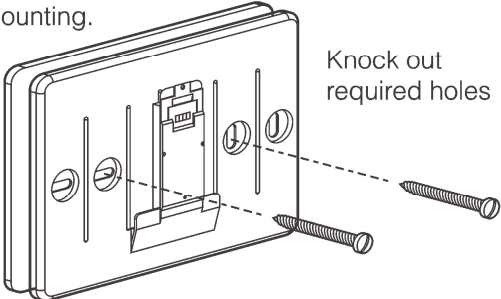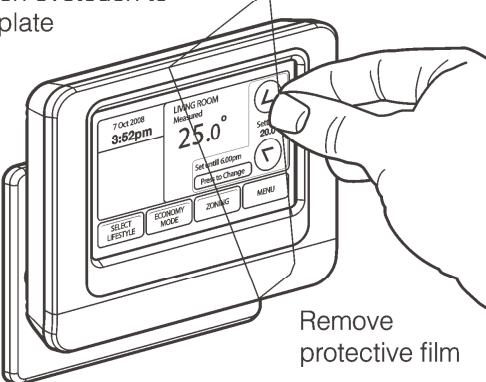| Remove front cover to exchange cover plate or access batteries.	Remove tab to activate batteries.
	Rechargeable batteries. Replace with AA 1.2V NiMH 2000-2400mAh batteries only.

Table-top stand

The evotouch can be powered from the table-top stand.
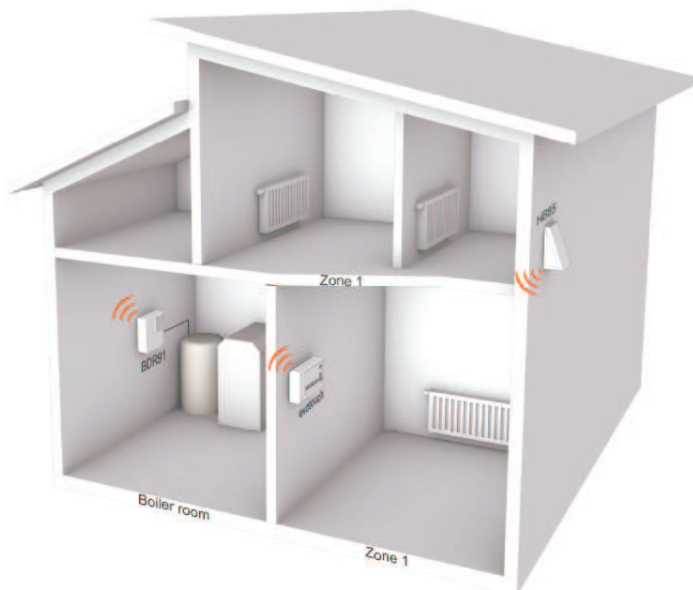
• Attach to the stand as shown.

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Installation instructions

Installation instructions for wall mounting

Position wall box at a height of 1.2m - 1.5m.

1.2–1.5m

Caution: Isolate power supply and make safe before wiring the unit to prevent electric shock and equipment damage. Installation should be carried out by a competent person.

Standard EU Schuko Wall box

230V ~ mains.

Minimum depth 40mm

Wires should protrude 55 mm

Insert wires into power module, observing correct polarity

230V ~ mains.

Push power module into wallbox with mains wiring to the rear

SPARE PART No.
DATE CODE
4V ⎓ 600mA

+ − X Y

DC ⎓   Not used

Use screwdriver with 2.5mm head

SPARE PART No.
DATE CODE
4V ⎓ 600mA

The power module can be installed in a different location from the evotouch unit.

Disconnect low voltage cable from wallplate terminal block and extend the connection by up to 10m using 1.0mm² cable. If smaller size cable is used the maximum distance will reduce (e.g. 5m max with 0.5mm² cable).

Observe correct polarity when connecting the extension cable. Power Supply Cable wires are Red (+), Black(-).

Attach wallplate to wall box or surface (Power module remote).

Optional spacer for surface mounting.

Knock out required holes

Attach evotouch to wallplate

LIVING ROOM
Measured
7 Oct 2008
3:52pm   25.0°
Set until 6:00pm
Press to Change
SELECT
LIFESTYLE   ECONOMY
MODE   ZONING   MENU

Remove protective film
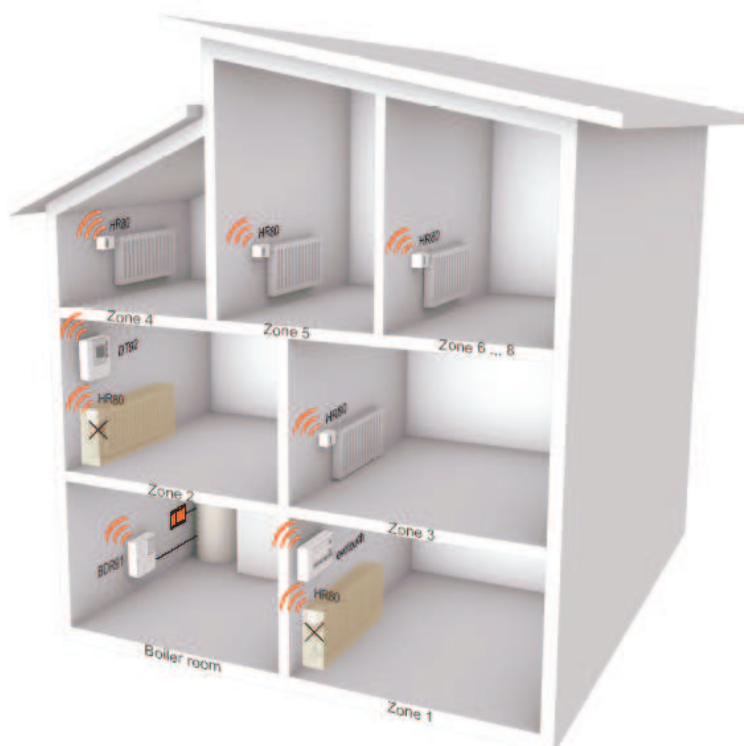
Application Examples

Single zone thermostat with boiler control

Application description

This application shows 1 zone boiler control where the evotouch controller controls the boiler directly depending on the heat demand via the BDR91 relay module (switching ON/OFF).
The internal room sensor of the evotouch controller is used to measure the room temperature.

Multizone system with radiators and remote sensors

Application description

Radiator application with used integrated room sensor of HR80 or external remote sensor DT92. Because in some cases the radiators are faced with e.g. wood which causes an imprecise temperature measurement see example zoe1 and zone2. In zone1 the internal room sensor of the evotouch controller is used to measure the room temperature. For zone 2 the DT92 room unit is used also for remote adjustment.
The room temperature from zones 3-6 is measured directly by each HR80.
Up to 8 zones can be controlled individually with the radiator controller HR80 in combination with room units DT92, HCW82 or HCF82.
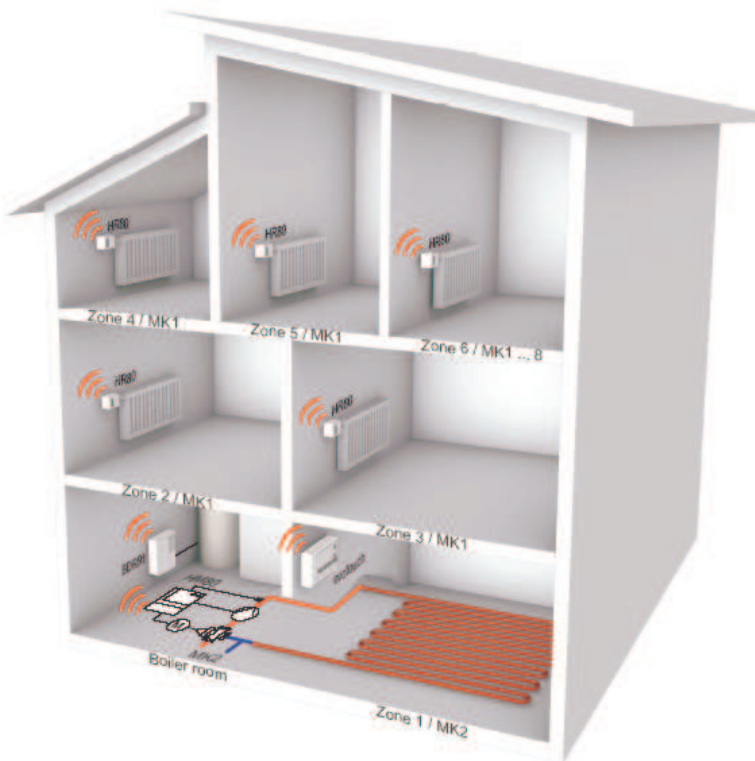
Multizone system with underfloor heating individual room thermostat

Application description

The underfoor heating controller controls 6 zones individually. For zone 1 the internal room sensor for evotouch will be used all other zones 2-6 require it´s own DT92 room unit also to adjust the room setpoint temperature.
In total up to 8 zone can be controlled individually.
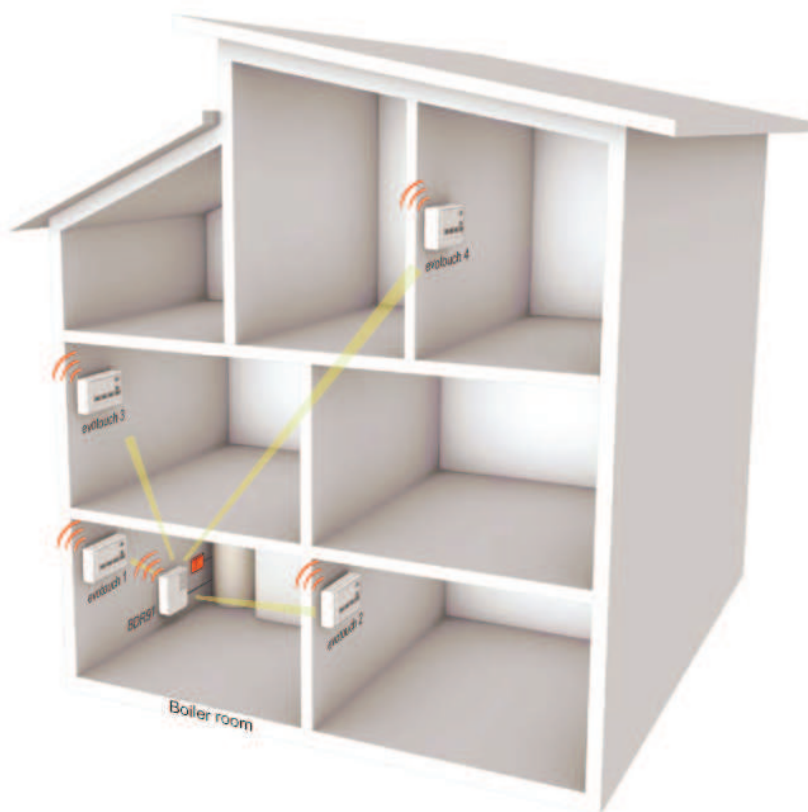
Multizone system with mixing valve and radiators

Application description

This application shows two heating circuits one for radiator MK1 and one for underfloor heating MK2.
The HR80 radiator controllers belong to the MK1 (zones 2-6).
Zone 1 (underfloor heating control) is controlled by the mixing valve controller HM80. For optimal operation of the HM80 the parameter can be set individual for each zone.
evotouch can control up to 8 zone with HM80 however each zone required it´s own room sensor HCF82, HCW82 or DT92.

Multizone boiler control with up to 4 controllers

Application description

The boiler relay or OPENTHERM-Bridge can receive the heat demand from up to 4 evotouch controllers. Each controller calculates the maximum heat demand and must be bound to the boiler relay

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