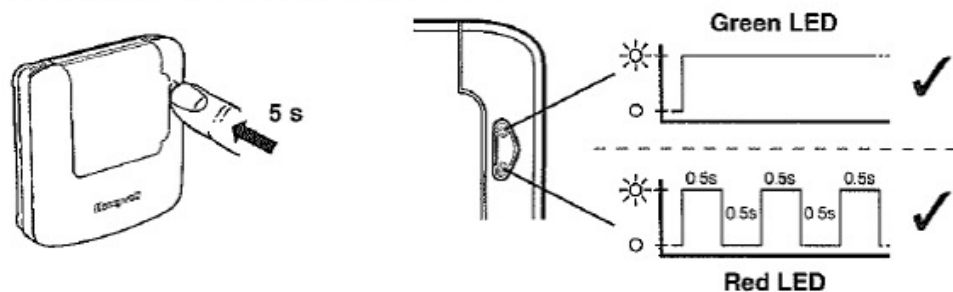


## 2 BINDING / RE-BINDING PROCEDURE

### 2.1 Binding CS92A to the Master Controller

Please refer to the instructions supplied with the system master controller for details of how to put it into binding mode.

- Put the system master controller into binding mode.
- Now hold the CS92A transceiver (minus mounting plate and sensor) between 1 and 2 metres away from the master controller.
- Put CS92A into binding mode by pressing and holding the button for 5 seconds, until the green light comes on and the red light flashes once every second.



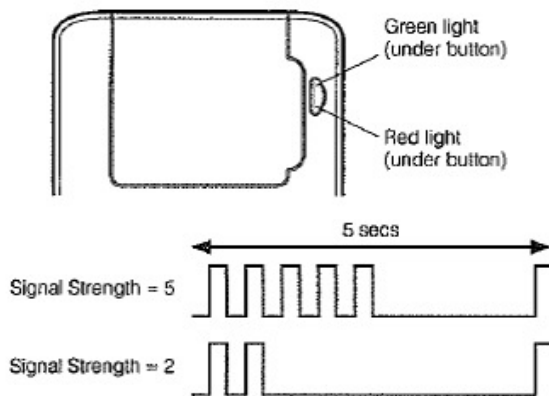
- Now press the CS92A button again to send the binding message to the master controller. If binding was successful CS92A will exit binding mode and both lights will switch off. The master controller will also provide acknowledgment of binding.
- If binding was unsuccessful, repeat step d. If this fails, repeat steps a. to d. again.
- Now go to section 2.2 to verify communications by using the signal strength test.

### 2.2 CS92A Signal Strength Test

The Signal Strength Test allows the transceiver to be positioned in the best possible location for signal reception.

**To activate Signal Strength Test:**

- Press the CS92A transceiver button once.
- The green light should come on. If it doesn't, reinsert the batteries and try again.
- With the green light on, the red light should start to flash to indicate the strength of the signal.
- If the signal strength is 3 or more, proceed to section 3.
- Exit test mode by pressing the button again.



The master controller measures the strength of the CS92A signal every 5 seconds and will communicate this to CS92A as a number between 0 and 5. CS92A will then indicate this number by flashing its red light a number of times in succession, followed by a pause of between 2 and 4 seconds. The number of flashes is equivalent to the signal strength number.

**A signal strength of 3 or more is recommended to ensure reliable communications.**

## 3 INSTALLING THE CS92A CYLINDER THERMOSTAT

### 3.1 Locating CS92A

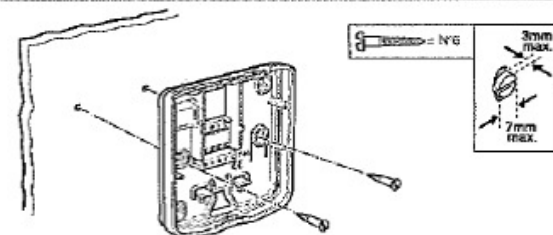
For best signal reception, the transceiver should be mounted in a location where there are no metal objects in a direct line between it and the master controller. Do not mount it on metal wall-boxes. Leave at least 30cm distance from any metal objects and at least 1 metre from any other electrical equipment. Select a preferred location, ensuring it is close enough to the cylinder so that the strap-on sensor element can reach the cylinder and test the signal strength before installation, as shown in section 2.2.

If the signal strength is less than 3, re-position the transceiver within the local area +/- 0.5 m to see if the signal strength improves. If this fails, you may need to re-position the CS92A transceiver completely and extend the cable to the sensor element.

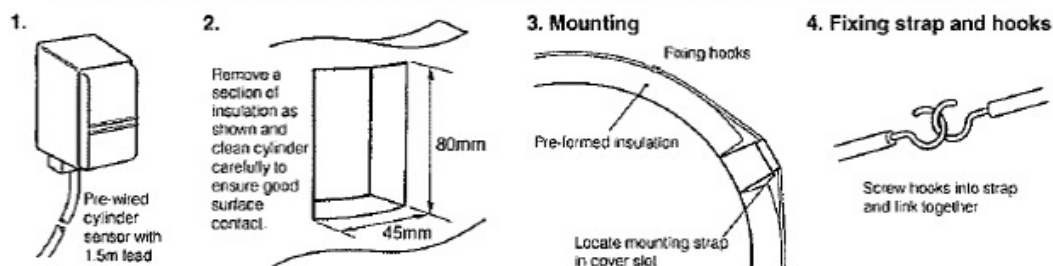
Exit Signal Strength Test by pressing the button again. CS92A will time out of this mode after 10 minutes.

### 3.2 Mounting CS92A and Wiring the Sensor

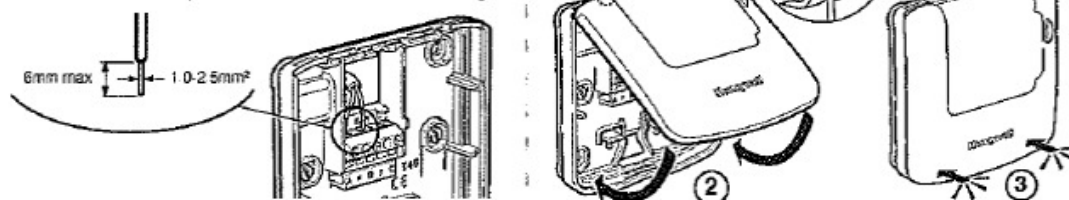
- Install the CS92A transceiver mounting plate in the chosen location next to the hot water cylinder. The sensor wiring can be led in from the top of this plate or from the left side, so a suitable hole should be cut in the appropriate plastic breakout.



- Install the pre-wired sensor onto the cylinder, in a position between 1/4 and 1/3 of the way from the bottom. After removing a section of insulation as shown, clean the exposed cylinder surface carefully to ensure good thermal contact. Cut fixing strap to size (if required) to ensure sensor is held firmly against cylinder.



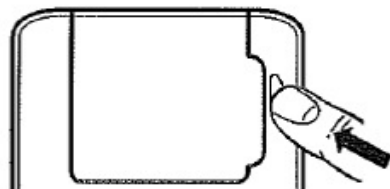
- Lead the 2 sensor wires through the mounting plate and connect them to terminals A and B on the CS92A mounting plate as shown. The wires are polarity free, so can be connected in any order. Provide appropriate strain relief by attaching the sensor cable to the wall using cable clips, or alternatively run the cable in mini trunking.
- Hinge the front piece of the CS92A transceiver onto the mounting plate and press until it clicks securely into place.



## 4 CS92A OPERATING INDICATIONS & BATTERY REPLACEMENT

### 4.1 Error Indications

It is possible to view the CS92A status by pressing the button on the transceiver box. The lights underneath this button will provide feedback as shown in the table. To save battery power the lights will go off after 1 minute. Error conditions may also be shown on the master controller.



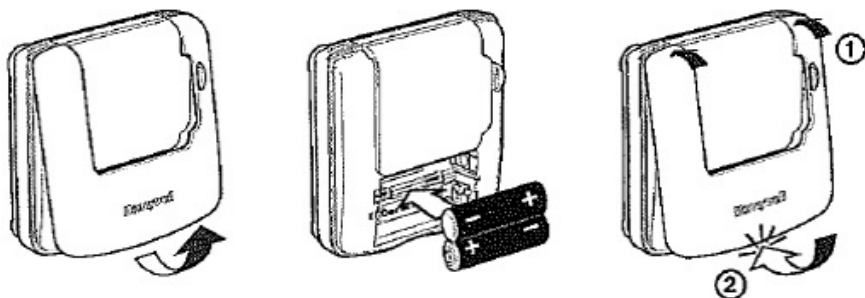
Green Light	Red Light	Status
On	Flashes up to 5 times in succession, then repeats	Everything is OK, red light shows signal strength - press button again to exit
Off	Flashes 0.1 s on, 0.9 s off	Battery low condition, replace batteries
Off	Flashes 0.5 s on, 0.5 s off	Sensor error, check sensor connection
Off	On continuously	Loss of communications

### 4.2 Battery Replacement

The CS92A batteries should last for a minimum of 2 years.

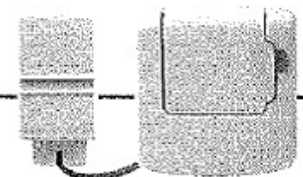
Batteries are accessed by unclipping the front cover at the bottom. Note battery polarity. Reverse process to refit front cover.

Use 2xLR6 (AA) alkaline batteries only.



## CS92A Wireless Cylinder Thermostat

### Installation Instructions



The CS92A is a wireless cylinder thermostat that measures the water temperature and communicates this to the master controller. The controller then performs all the necessary control actions to maintain the water temperature at the set value. The set temperature is programmed by your Installer in the master controller, and you should never need to change this. A value of 60°C is typical.

CS92A comprises 2 parts – a transceiver unit that mounts on the wall and performs all RF communications functions and a sensor element that straps onto the cylinder and is then wired into the transceiver. An insertion sensor element, for mounting in cylinder immersion wells, is also available and should be ordered separately.

## 1 INSTALLATION NOTES

### 1.1 Important Points to Note

If a new system is being constructed, a CS92A is being added to an existing system, or a faulty unit is being replaced, the desired units must be specially set up to allow them to communicate with each other. This process is called Binding and this **must** be done before the transceiver is mounted. Please refer to section 2. **Binding / Re-binding Procedure**.

- The CS92A wireless cylinder thermostat will only communicate with other Honeywell RF products that use the same 868MHz frequency and communications protocol.
- The CS92A wireless cylinder thermostat is powered by 2 x AA alkaline batteries (supplied).

### 1.2 Powering Up CS92A

The CS92A transceiver is supplied in the pack with the mounting plate separated from the rest of the unit for ease of installation. The next sequence of operations should be done before attaching it to its mounting plate.

To power up CS92A, unclip the battery cover, remove the paper tab that isolates the batteries from their contacts, and replace the battery cover.

Manufactured for and on behalf of the Environment and Combustion Controls Division of Honeywell Technologies Sàrl, ACS-ECC EMEA, Z.A. La Pièce 16, 1180 Rolle, Switzerland, by its Authorised Representative Honeywell Inc.

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