



Has my CM900 unit lost communications with the receiver?



In many cases of the unit not functioning the unit HAS NOT lost binding with the receiver - for example, Power loss does not cause this to happen. As all units are bound before leaving the factory it is not possible to have been unbound at installation time.

To check if the unit is still bound, it should be tested by putting into manual mode and raising temp to >1.5 deg C above reading and see if green light comes on, then returning to >1.5 deg C below reading to see if it switches off. If this occurs the unit is communicating with the receiver unit.



How to check if two units are correctly bound and how do I rebind quickly if there is any doubt?



Honeywell RF products communicate with each other, without interference from other similar units, by having the unique address of the room unit written into the non volatile memory of the receiver. This allows the receiver to know which communications to respond to even though they may be operating on the same frequency. The process of writing these addresses is known as Binding. NOTE: to bind 2 devices together, BOTH must be put into Binding Mode, then a binding signal must be sent from one to the other.

There are three conditions that the units could be in:

1. Unbound/lost comms.

After about 1 HOUR the BDR91 (receiver) will have its RED light on PERMANENTLY and the unit will not be controlling correctly [depending on the 'comms loss' parameter in the installer settings the GREEN light might be cycling 20% on, 80% off OR off permanently.

2. Unit rebound BUT the original binding was not cleared first.

After about 1 HOUR the BDR91 will be FLASHING its RED light BUT the unit will be operating correctly so the GREEN light responds normally. [Up to four room units can be bound to a single BDR91 receiver. If a room unit has for instance been changed or replaced, the original binding may still occupy one of these memory slots. If the BDR91 does not receive a communication from the device from some time then the red light will flash to indicate that one of the room units is missing. In these circumstances the original binding must be deleted first before binding the new room unit.

3. Normal operation. No fault.

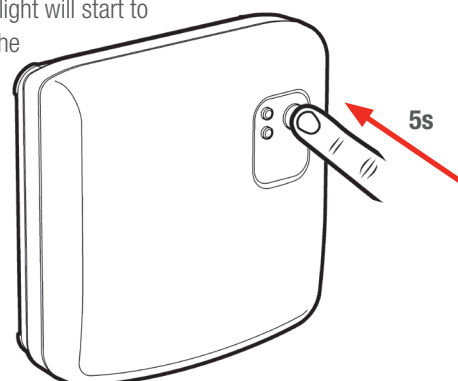
The GREEN light will cycle ON and OFF in line with the room unit demand. Note the flame indicator does not mean that the green light is always on, just that a demand is being sent to the BDR91. When the temperature is at set point the control will still cycle the boiler to maintain temperature.

Having identified that a unit is not bound, the correct binding sequence is as follows:

At the BDR91

Press and hold the button, after 5 seconds the red light will start to flash 50% ON / 50% OFF. CONTINUE to hold until the flash rate changes to 10% ON / 90% OFF. This clears the previous stored information.

Release the button then press and hold again for 5 seconds, 50% ON / 50% OFF. The unit is now in BINDING MODE.



At the CM900 room unit

Stand about 1 metre away from the BDR91

Push the slider to OFF

Press and hold the TWO TEMPERATURE BUTTONS (right of display) AND the LEFT arrow (below display) for 3 seconds.



The display will now show InSt CO Control Binding. PRESS the OK button.

If the signal has been received correctly the RED light will stop flashing.

This is the binding process completed but you can check the operation by the following:

To test the communications enter the test mode:

With slider still in OFF. Press and hold the TWO TEMPERATURE BUTTONS and the RIGHT arrow for 3 seconds. The display will show Test transmit and the BDR91 will flash the Green light every 6 seconds. This indicates communication between units. For additional signal strength information hold the left arrow button for 5 seconds. The display will show SS. The BDR91 red light will now flash to indicate the signal strength. 5 flashes is perfect, less than 2, look for another location.

Move the slider to MAN to exit test mode.

For further information on any Honeywell heating control product please visit

www.honeywelluk.com.

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