

evohome MULTI-ZONE TOUCH SCREEN CONTROLLER

PRODUCT SPECIFICATION SHEET



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
 minimize air time and avoid
Technology: 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 °C
Shipping and Storage: -20 ... +50 °C
Temperature:
Humidity: max. 10 ... 90 % relative
 humidity non condensing

CERTIFICATION

Meeting the following CE approved
Standards: RoHS-complaint
 Honeywell Inc. hereby declares that this device
 evotouch is in compliance with the essential
 requirements and other relevant provisions of Directive
 1999/5/EC.

TEMPERATURE CONTROL

Internal room temperature
Sensor: (NTC) operating range
 0°C to 40°C

MECHANICAL DATA

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

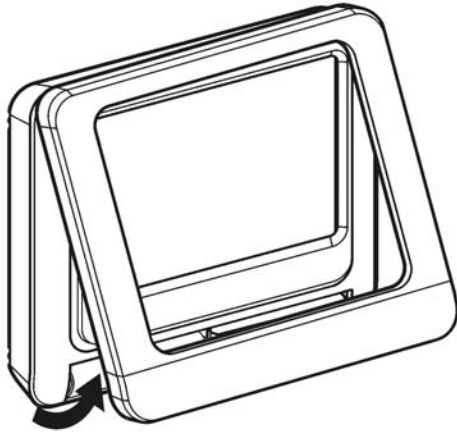
OPTIONS

Table top stand: table top stand ATF200
 (UK plug)
Wall mounting: Power supply for under plaster
 mounting ATF300

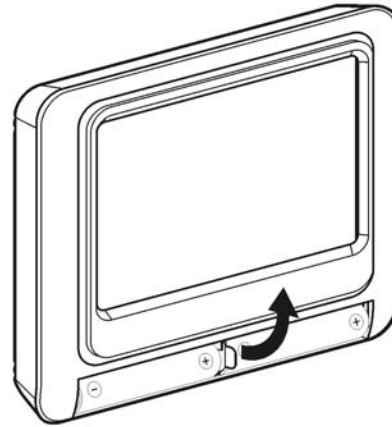
Installation instructions

Batteries and front cover

Remove front cover to exchange cover plate or access batteries.



Remove tab to activate batteries.

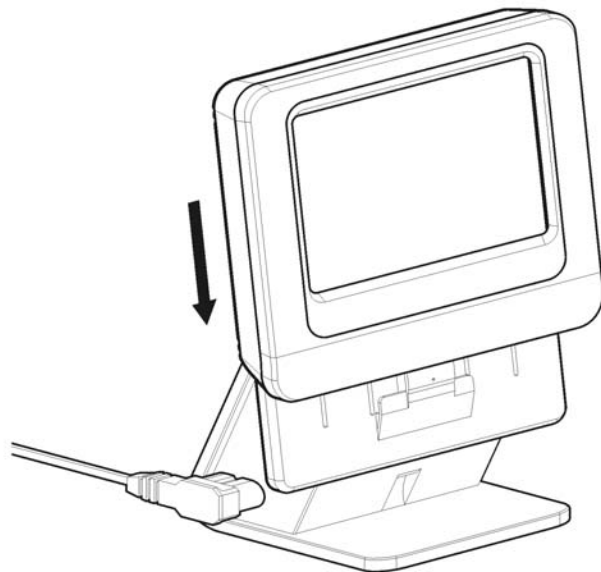


Rechargeable batteries. Replace with AA 1.2V NiMH 2000-2400mAh batteries only.

Table-top stand

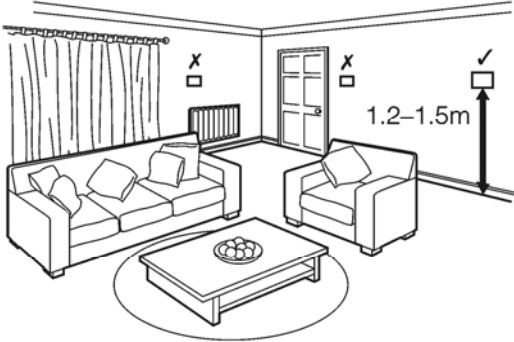
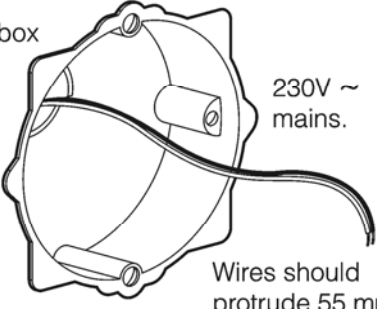
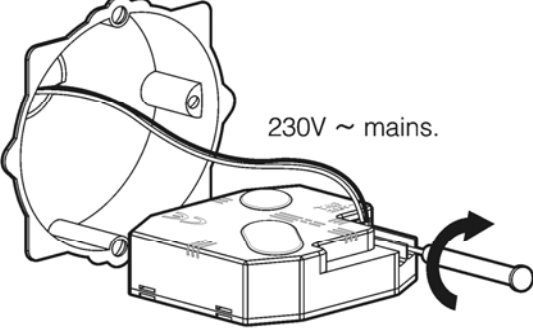
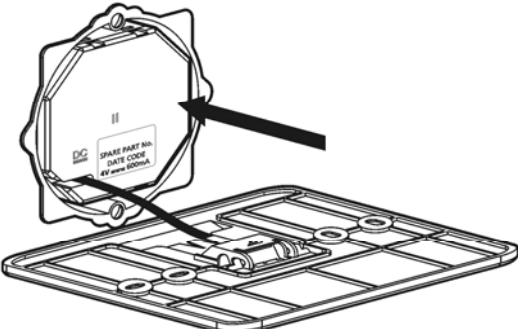
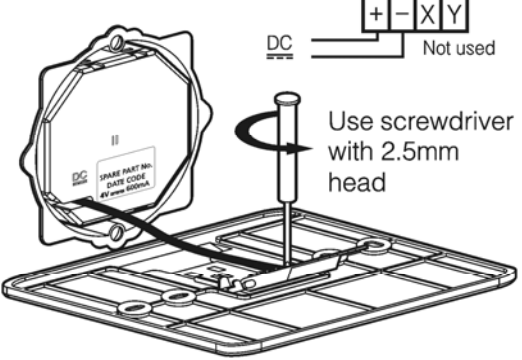
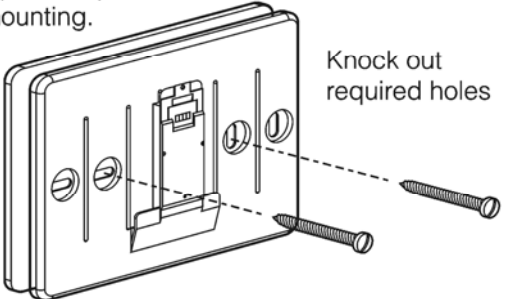
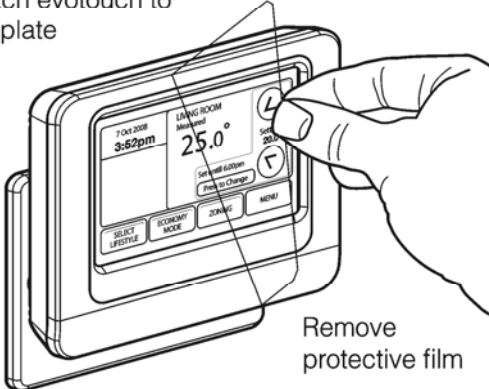
The evotouch can be powered from the table-top stand.

- Attach to the stand as shown.



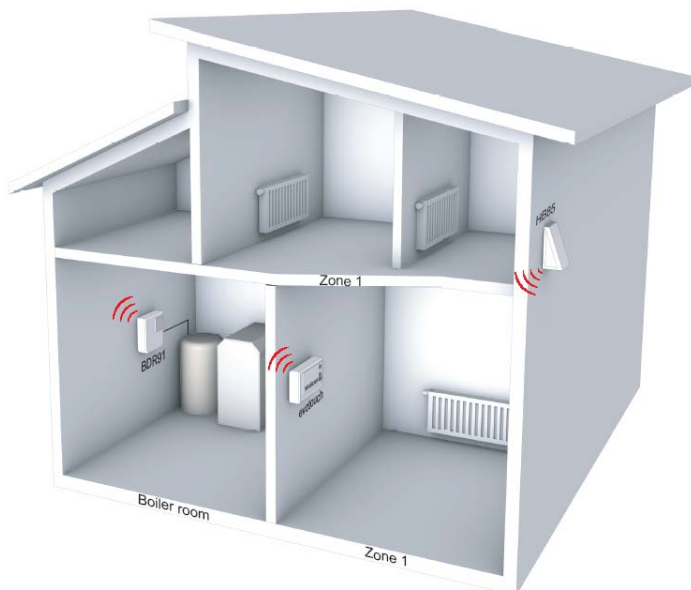
Installation instructions

Installation instructions for wall mounting

<p>Position wall box at a height of 1.2m - 1.5m.</p> 	<p>⚠ 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.</p> <p>Standard EU Schuko Wall box</p>  <p>230V ~ mains.</p> <p>Minimum depth 40mm</p> <p>Wires should protrude 55 mm</p>
<p>Insert wires into power module, observing correct polarity</p>  <p>230V ~ mains.</p>	<p>Push power module into wallbox with mains wiring to the rear</p> 
 <p>DC + - X Y Not used</p> <p>Use screwdriver with 2.5mm head</p>	<p>The power module can be installed in a different location from the evotouch.</p> <p>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).</p> <p>Observe correct polarity when connecting the extension cable. Power Supply Cable wires are Red (+), Black(-).</p>
<p>Attach wallplate to wall box or surface (Power module remote).</p> <p>Optional spacer for surface mounting.</p>  <p>Knock out required holes</p>	<p>Attach evotouch to wallplate</p>  <p>Remove protective film</p>

Application Examples

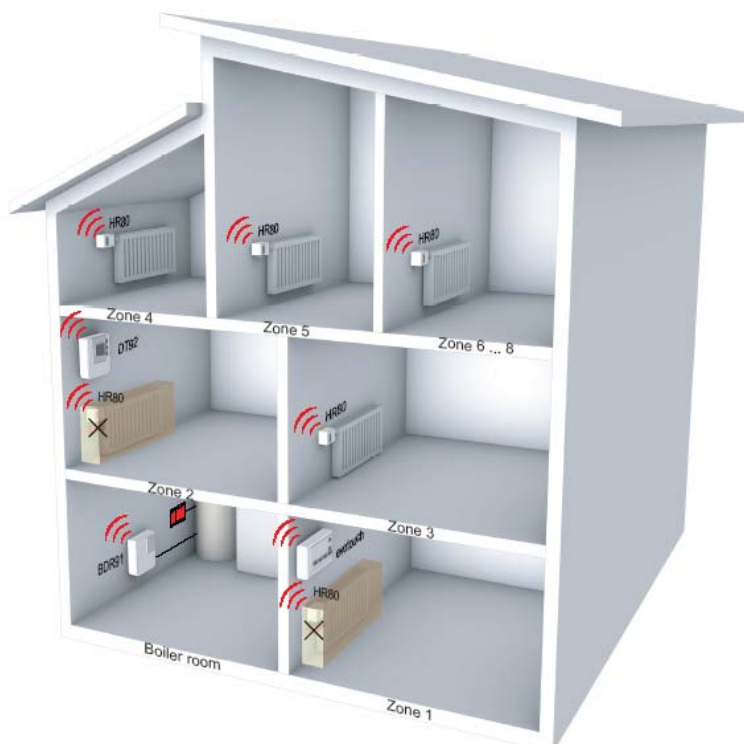
Single zone thermostat with boiler control



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.

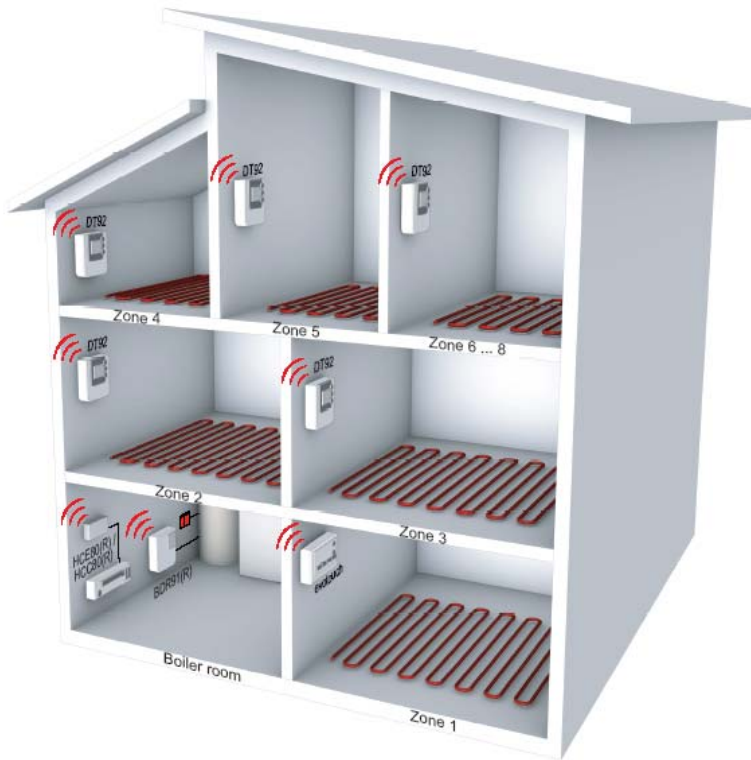
Multizone system with radiators and remote sensors



Application description

Radiator application using integrated room sensor of HR80 or external remote sensor DT92. For enclosed radiators which are faced with e.g. wood causes an imprecise measurement see example zone1 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 also used 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.

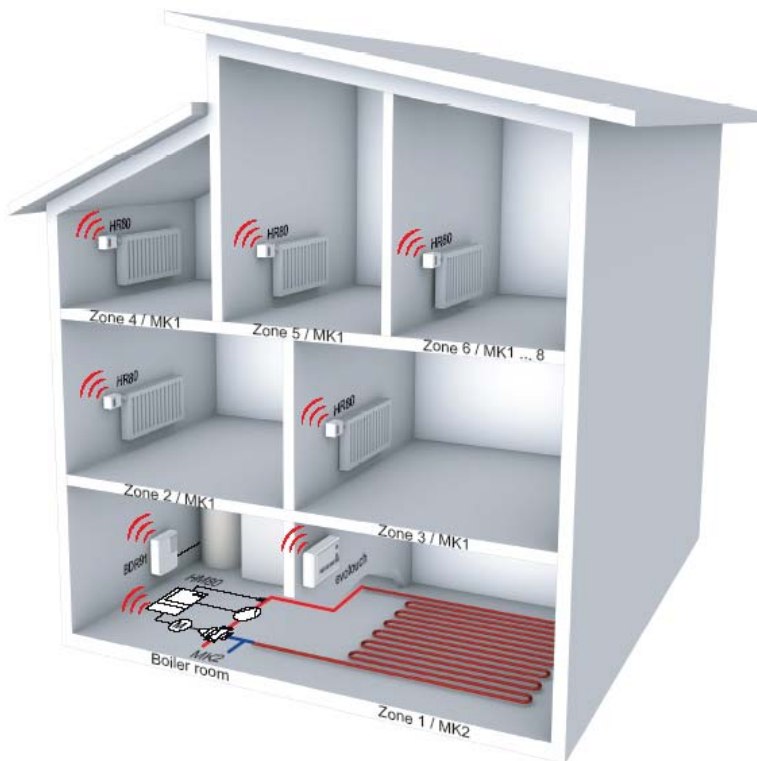
Multizone system with underfloor heating individual room thermostat



Application description

The underfloor heating controller controls 6 zones individually. For zone 1 the internal evotouch room sensor will be used all other zones 2-6 require its own DT92 room unit also to adjust the room set point temperature. In total up to 8 zone can be controlled individually

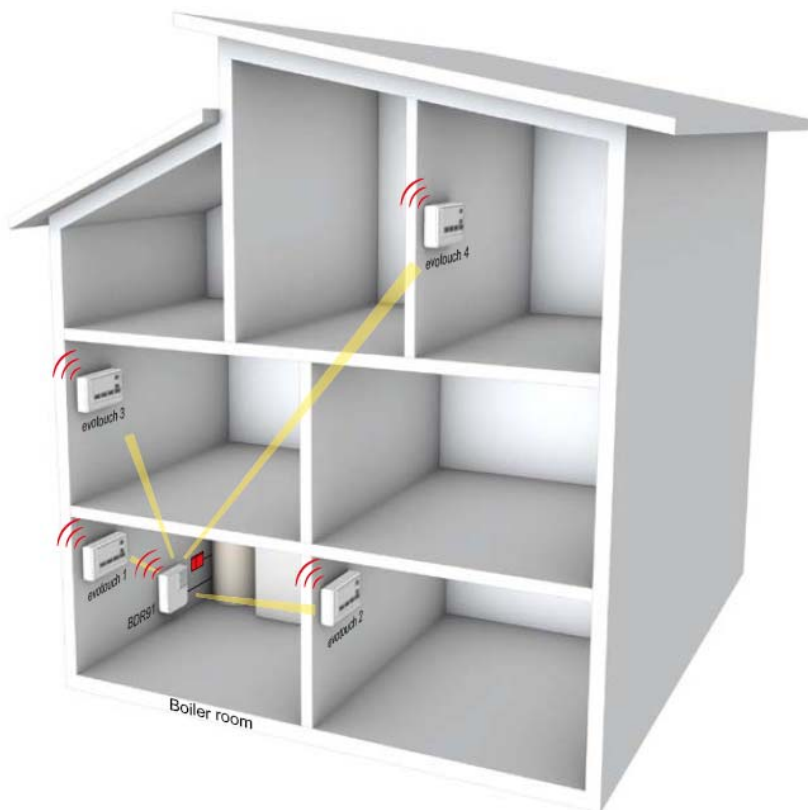
Multizone system with mixing valve and radiators



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 its 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

