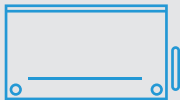


# wunda

## Smart Connection Box

Installation Guide



### General information

The **Smart Connection Box** controls Electronic Actuators, circulating pump and heat source or zone valve. The **Smart Connection Box** is a part of the heat management system for your home.

One **Smart Hub** supports up to **4 Smart Connection Boxes**.

The **Smart Connection Box** has a range of functions:

- Control **Electronic Actuators**
- Supports up to **12 heating zones**;
- Controls the **circulating pump manifold**;
- Is equipped with a **potential-free contact (relay)** for controlling an external heating source/ zone valve.

### Manufacturer

**Wunda Group PLC**

Unit 10

Kingsway Buildings, Kingsway  
Bridgend Industrial Estate,  
Bridgend,  
Glamorgan,  
CF31 3YH

If for any reason you need to return your Wunda Smart products, simply return the product in its original box to us at the above address. Any return is subject to our refund policy so please don't forget to check the terms and conditions.

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⚠ Note: large metal objects located in the vicinity of or between the **Smart Hub** and the **Smart Connection Box** may have a negative effect on the quality of radio transmission between the devices. External antenna should be placed vertically. The device should be connected to a single-phase power system according to the standards in place.

The connection method is described in this manual. Dismounting of the housing, incorrect assembly or use, and operation contrary to the guidelines set forth in this manual will result in the loss of product warranty and cause the risk of electric shock.

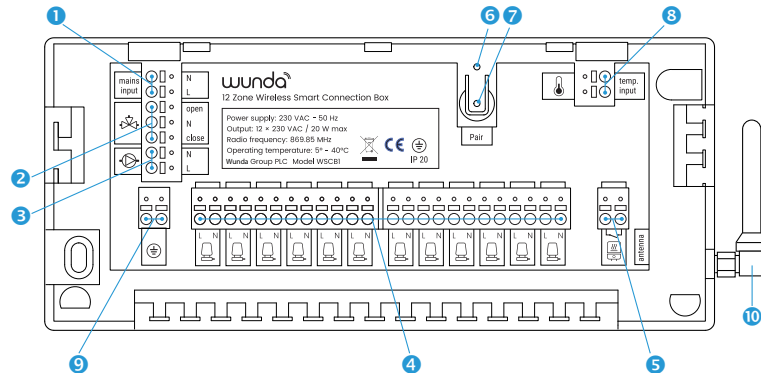
⚠ Before starting the installation process make sure that there is no voltage on the connection cables. Installation should be performed with a flat screwdriver (up to 3mm in diameter). To ensure correct operation of the device, make sure that it is transported, stored and used appropriately.

### Device appearance

The device consists of the following components:

- 1 230V power mains input
- 2 output for the 3D valve
- 3 relay output for 230V the circulating pump, max 0.5A
- 4 12 outputs for electronic actuators

- 5 relay output for the heat source, max 3A
- 6 status LED
- 7 pairing button
- 8 temperature input KTY-81-210
- 9 protective earthing
- 10 antenna



## Connecting to manifold

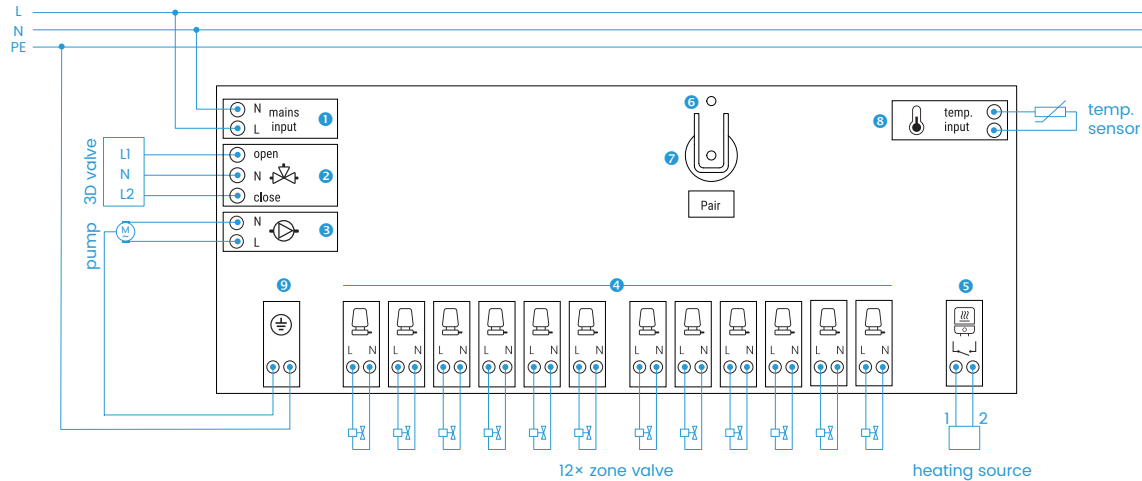
The **Smart Connection Box** must be installed in a suitable location above the manifold within reach of the actuator power cables.

All installation and connection steps should be performed by appropriately qualified and authorized persons in accordance with applicable regulations and standards.

1. Installation of the **Smart Connection Box** should be installed via **fused spur**.
2. Isolate and turn off spur from mains power and connect the **Smart Connection Box** to the spur **1**
3. Connect to electronic actuators installed on the manifold in correct order to relevant contacts **4**
4. Connect **manifold pump** to contact no **3**
5. If you want to **switch heat source/zone valve**, connect to relay output **5**
6. If you want to use a **3d/4d valve\*** with a temperature sensor, connect your valve to **2** and the temperature sensor into terminals **3**  
Without the temperature sensor connected, the 3d/4d valve will not operate
7. **Turn on the power** for your Smart Connection Box

\*3D/4D valves not supplied by Wunda

## Wiring diagram:



## Registering the device

Ensure that your **Smart Hub** is correctly installed and registered.

Open the **WundaSmart application** and log in to your **Smart Hub**, select the **Devices** from main menu and choose **Smart Connection Box**.

You have **30 seconds** to pair the **Smart Connection Box**. Press and hold button **7** and wait for the LED light **6** to turn green.

The installed **Smart Connection Box** will appear on the device list.

Configure heating zones (rooms) in your application.

## Technical data

Power supply	230V, ~50Hz
IP rating	IP20
IEC protection class	II
Permissible range of ambient temperatures	from 5–40°C, without condensation
Pump circuit load	to 0.5A
Electronic actuator circuit load	12×230V, 20W max Per Channel
Internal Fuses	5A
Radio communications:	869.85MHz, two-way
Maximum transmitter power	< 5 dBm e.r.p.
Antenna:	yes (supplied)