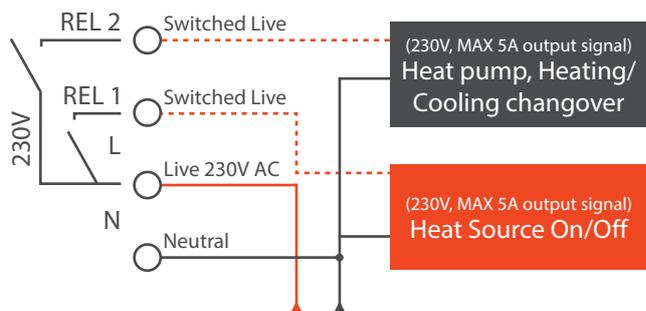
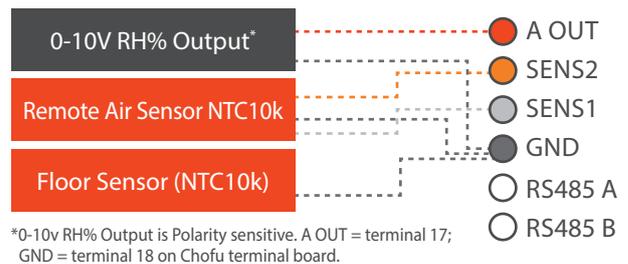


# SmartOne Controller

## Advanced Start Up Guide

- Ensure the thermostat back plate is wired as per the below wiring diagram and cables are adequately inserted and secured into the terminals. When fixing back plate off to flush box ensure cables are not being pinched or damaged.
- Please be aware when using a SmartOne thermostat in conjunction with a Chofu heat pump, the live on/off and heating/cooling outputs are 230V. An external relay is required to close the low voltage contacts on the heat pump.
- Power up the SmartOne thermostat and follow the prompts through to the menu. Press the symbol  in the upper right hand corner of the screen for **Network > WiFi > Scan Network > Select network (2.4GHz only) > Enter correct password > Confirm**. Now the thermostat is connected to the WiFi it will update to the latest software version.
- Press the  in the upper right hand corner of the screen and navigate to **Settings**. Using the passcode 264408 you can enter the **Advance Settings** menu.
- Under **Setup** you can select the type of control the thermostat is going to manage. **Heating Only, Heating and Cooling** or **Cooling Only**. Factory setting is **Heating and Cooling**. If the type is changed the thermostat will restart.

### Wiring diagram (backplate)



- Under **Parameters > Temperature** ensure the values are set as follows:
- **Switching type** = On/Off Heat source will switch on/off when set point is reached
- **Switching Differential** = 1°C for boiler systems & 0.5°C for heat pump powered systems. This is the amount the temperature will be allowed to fall below the set point before the heating will be switched on again
- **Sensor Selection**
  - » **Built in** = System is controlled by built in air sensor only. Used with radiators or fan coil systems.
  - » **Built in and floor sensor** = System is controlled by both, built in air sensor and remote floor sensor (SENS1). Used in radiant heating and cooling systems to control air temperature as well as maintain min/max floor temperatures. *\*Floor probe must be used in radiant cooling installations.*
  - » **Floor sensing only (SENS1)** = System is controlled by remote floor probe only (SENS1). For use in certain installations only.
  - » **External air sensor only (SENS2)** = System is controlled by remote air sensor (SENS2) only. Used with radiators or fan coil systems when thermostat is installed remotely.
  - » **External air and floor sensor** = System is controlled by both, remote air sensor (SENS2) and remote floor sensor (SENS1). Used in radiant heating and cooling systems to control air temperature as well as maintain min/max floor temperatures. Used when thermostat is installed remotely or in another area. Used for most underfloor heating/cooling installs. *\*Floor probe must be used in radiant cooling installations.*
- **Room Temp > Sensor Offset/Calibration** = Used to calibrate built in air sensor. \*Do not calibrate in the first 30 minutes after powering on as the thermostat auto adapts.
- **Floor Temp > Min (Heating) = 20-25°C Max (Heating) = 30-35°C.** These temperatures are a guideline only. This will vary depending on floor coverings and floor probe placement. When floor probe enabled, thermostat will heat floor to or above MIN limit and stop heating when MAX limit reached.
- **Floor Temp > Min (Cooling) = 15°C Max (Cooling) = 22°C.** These temperatures are a guideline only. This will vary depending on floor coverings and floor probe placement. When floor probe enabled, thermostat will cool floor to or below MAX limit and stop cooling when MIN limit has been reached.
- **Floor Temp > Sensor Offset/Calibration** = Used to calibrate the temperature measured at the floor probe. \*Do not calibrate in the first 30 minutes after powering on as the thermostat auto adapts.
- **Floor Temp > Dew Point Check** = Enable. This is a safety to prevent condensation build up on surfaces. The thermostat will stop cooling if the floor sensor temperature drops below the calculated dew point. Disabled for heating only systems.
- **Set point > Min = 10°C Max = 30°C.** These settings will prevent any irregular adjustments being made to the thermostat causing excessive run times and energy consumption. The temperature range can be adjusted between 0-99°C for special applications.
- **Optimum Start/Stop** = Enable. Optimum start will delay the startup of the heating or cooling system to the latest possible moment to avoid unnecessary activation, while ensuring the building is comfortable at the programmed time.
- **Antifreeze Temp** = 5°C. Set point which Antifreeze protection will engage. In low ambient conditions the thermostat has the ability to call a heating demand to prevent damage to the system and its components.
- **Factory Reset** > If required the thermostat can be set back to the default factory settings by holding this down for 10 seconds.
 

**Note:** If **Factory Reset** is done the thermostat will power on in the **Stop System** state, you will need to enter the **Advanced Settings** menu again and under **Setup** select **Start System**.

Please refer to the **user manual** for pairing of App, changing modes and setting up time schedules etc.

**Note:** When thermostat loses power the 0-10V humidity output will drop off. This can cause a L5 error on a Chofu heat pump using humidity input for radiant cooling. Error must be manually reset at heat pump controller.