

IRC

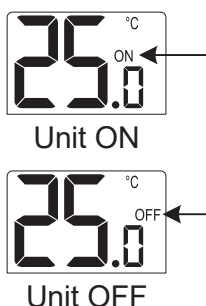
Owner's manual & Technician settings



1. Owner's manual

1.1 Turning the system On or Off

- Press the [On/Off] button to turn the system on - The word "ON" will appear on display.
- Press again to turn the system off - the word "OFF" will appear on display.



1.2 Adjusting the set-point temperature

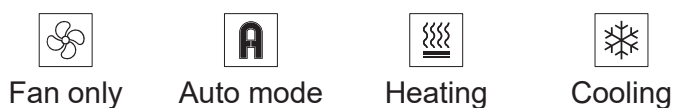
- Press the or button – the set-point temperature will appear on display.
- Press again to adjust the set-point.



Note: for main controllers with humidity support, press and hold the [Mode] button to enter humidity set-point.

1.3 Selecting system mode

- Press the [Mode] button to select between:

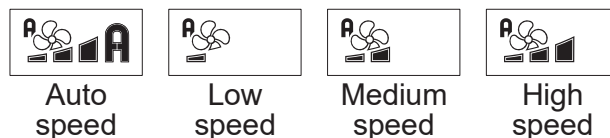


Notes:

- The or icons will flash on display on demand for cooling or heating.
- The mode selection may be limited or disabled when connected to some types of controllers

1.4 Selecting fan speed

- Press the [Fan] button to select between fan speeds:



Note:

- The fan speed selection may be limited or disabled when connected to some types of controllers

1.5 Auto fan selection (fan on demand)

- Press and hold the [Fan] button to turn Auto fan ON or OFF.
 - When ON, the fan will run on demand for cooling or heating,
 - When OFF, the fan will run continuously.



Notes:

- Auto fan cannot be selected in Fan only mode.
- The auto speed selection may be limited or disabled when connected to some types of controllers

1.6 Switching between temperature scales

- Press and hold the [C/F] button for to switch between temperature scales.

1.7 Errors and alarms

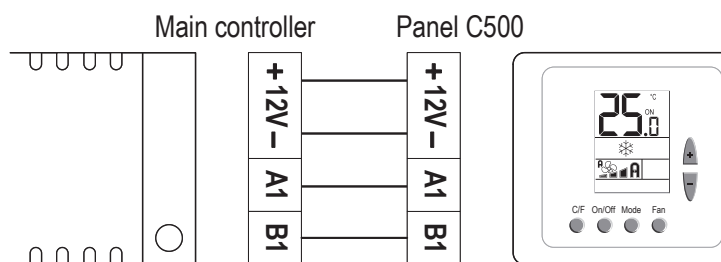
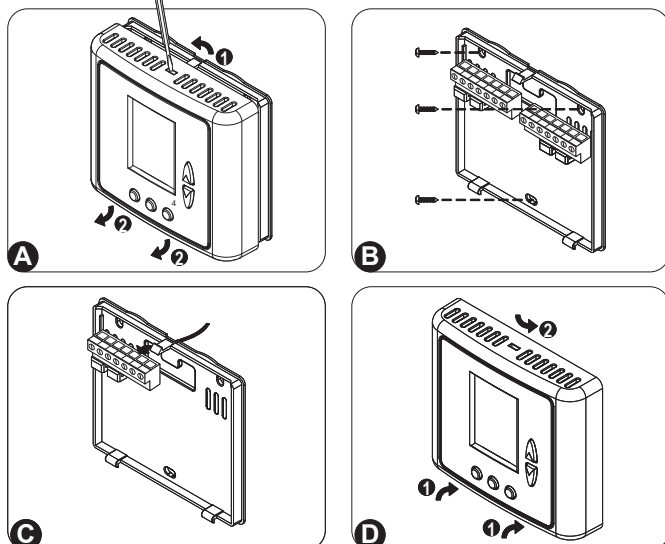
Fault	Indication
Unoccupied signal from PIR	UC
DI1 Fault	St
Deicing in cool	dC
Deicing in heat	dH
Freeze protection active	FP
T1 sensor fault	F I
Over-heat in cooling	OC
Over-heat in heating	OH
DI4 Fault	C I

2. Installation instructions and wiring diagram

The control panel is designed for wall mounting in the room to be controlled. If the built-in temperature sensor is being used to measure room temperature, the module should be placed where the temperature is representative of the general room conditions. Disconnect power to the main board before installing the unit. The standard height is 1.5 meter (5 feet).

Installation procedure:

A. Separate the front panel from back panel by pressing the tongue on the top and pulling the back panel out. **B.** Line the back panel up against the wall or flat surface. Install three screws as required. **C.** Make electrical connections as shown on enclosed electrical wiring diagram. **D.** Install the cove to the back panel; first the two tabs on the bottom and then the top tongue. Push until tight against the wall.



3. Technician settings

Entering technician settings

- Adjust the set-point temperature to:
10°C/50°F - For **regular** technician settings
11°C/52°F - For **advanced** technician settings
- Press the [C/F] button for 5 seconds to enter tech. settings.
- Press the [Mode] button to proceed to the next parameter.
- Press the [Fan] button to return to the previous parameter.
- Use the [+] and [-] buttons to select/adjust parameter values.
- Press the [On/Off] button or wait 30 seconds to exit technician settings and return to normal display.

3. Technician settings (Cont.)

Regular technician settings

P01 – Selecting temperature sensor location

“1” - Sensor on panel (default) “0” - Sensor on main board

P02 – Calibration of measured temperature (offset)

Range: -6...+6 °C, default: 0 °C.

P03 – Temperature display

“1” - With decimal point (default) “0” - Without decimal point

P04 – LCD Backlight

“1” - Backlight ON (default) “0” - Backlight OFF

P09 – Beeper

“1” - Beeper ON (default) “0” - Beeper OFF

P10 – Humidity display (Main controller model dependent)

“1” - With humidity display “0” - without humidity (default)

P12 – Calibration of measured humidity (offset)

Range: -9...+9%, default: 0%.

P99 – Restore default parameter values

- Press the [+] button to change from “0” to “1” to restore parameters values. The parameters values will reset after exiting technician mode and returning to normal display.

Advanced technician settings

P11 – Controller firmware display

P12 – Modbus baud rate

9.6 – 9,600 19.2 – 19,200 38.4 – 38,400
76.8 – 76,800 115.5 – 115,200

P13 – MAC Address

The MAC Address can be set using the physical DIP switch on the main controller (“S”) or using this panel (“E”) as follows:

- Press the [Mode] button to switch to parameter P14 and change its value from “0” to “1”.
- Press the [Fan] button to return to parameter P13 and 0 select the MAC address. The new MAC will be effective within 60 seconds.

P14 – MAC by DIP switch or software (see P13)

“1” - MAC by DIP Switch (default) “0” - MAC By panel

P15 – Registers reading from main board

MODBUS – use the [+] or [-] buttons to select register No. (hex) and press the [C/F] button to confirm. Use the [+] and [-] buttons to adjust the desired value and press the [C/F] button to confirm.
BACnet - use the [+] or [-] buttons to select AI/AO/AV/BI/BO/BV. Press the [C/F] button to confirm. Select register No. (hex) and press the [C/F] button to confirm. Adjust the desired value. Press the [C/F] button to return to register number selection. Press the [C/F] button again to return to AI/AO/AV/BI/BO/BV selection.

P16 – Reading T2 value from main controller (if connected)

P17 – Reading Tt value from main controller (if connected)

P17 – Commissioning mode

“1” - Commissioning mode “0” - Regular mode (default)

Press the [Mode] button to go back to the first parameter.

Press the [On/Off] button or wait 30 seconds to exit technician settings and return to normal display.

Series	
IRC	
Issue	Supersedes
09.25	---