EXT-CFU-230-D.. Touch Keypad fan coil unit thermostats are designed to control the room temperature in air-conditioning fan coil unit system or dust pipe channel system. EXT-CFU-230-D.. thermostats with microprocessor and big LCD display.

Basic features:

· LCD with white backlight
· Room temperature setting
· Manual or auto 3-speed changeover
· Defrost (low temperature protection)
· EXT-CFU-230-D222 suits 2-pipe system
· EXT-CFU-230-D422* suits 4-pipe system
· Touch keypad
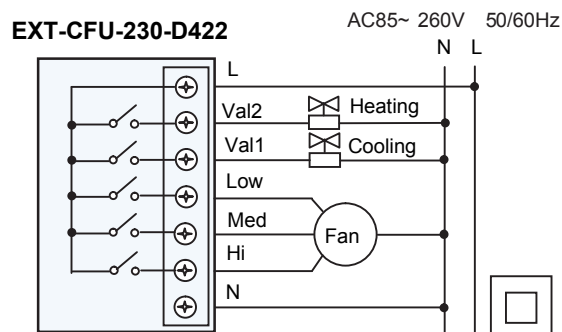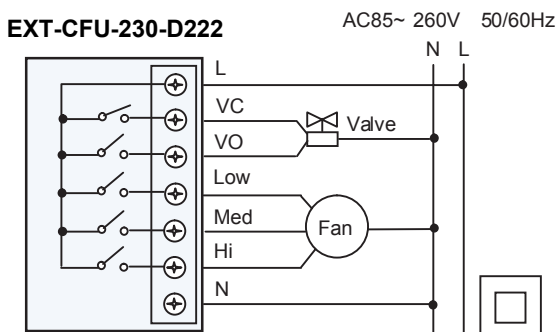· Keypad Lock (Option)
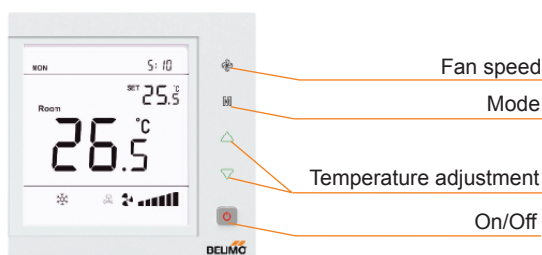· Auto Restart (Option)

Technical data

Power supply	AC 85...260V 50/60Hz
Switch current rating	2A (Resistive)
	1A (Inductive)
Power consumption	<1W
Display range	0...+55°C
Display accuracy	±0.5°C
Sensing element	NTC
Wiring	Accepting 2x1.5mm^2 or 1x2.5mm^2 wires
Control accuracy	±1°C
Set-point range	+5...+35°C
Operation environment	0...+45°C
Protection class	IP30
Humidity	5...95%RH, non-condensing
Key	Touch keypad + soft touch key
Housing	PC+ABS Flame Retardant
Hole pitch	60mm (Standard)
Dimensions (WxHxD)	90x90x14.2mm

* EXT-CFU-230-D422 available on request

Wiring Diagram

EXT-CFU-230-D222

EXT-CFU-230-D422

Display and touch keypad

Fan speed
Mode
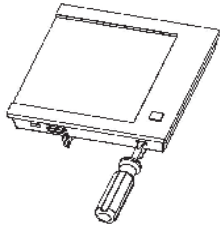Temperature adjustment
On/Off

It shows following status:

· working status: cool ❄, heating ☀ or ventilation ♻

· fan speed: low ▄▄,Mid ▄▄▌▌,High ▄▄▌▌▊,or Auto **AUTO**

· FCU valve status 🗲

· Room temperature

· Temperature setpoint

· Time, week display

Operation instructions

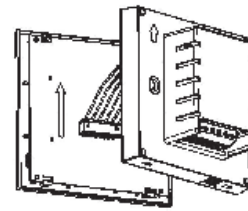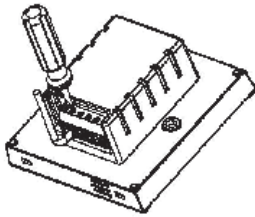|	
On/Off	Press "⏻" to turn on, press "⏻"again to turn off thermostat and its output.
Setting Temperature	Press "▼" to reduce temperature, press "▲" to raise temperature (0.5°C per step).
Mode Selection	Press "M" to change system working in cooling "❄", heating "☀" or ventilation "♻" mode.
Fan Speed Selection	Press "🌀" to select ▄▄▌▌▊ (Hi), ▄▄▌▌ (Med), ▄▄ (Low), AUTO(Auto). In "Auto" mode, the fan-speed changes automatically. When the differential temperature between room temperature and setpoint exceeds 1°C, 2°C and 3°C, thermostat operates at Auto LOW-speed, Auto MED-speed and Auto HI-speed respecctively.
Control Motorised Valve Under 2-pipe Configuration	If the differential temperature between room temperature and setpoint exceeds 1°C, FCU valve will be opened; if room temperature and setpoint are equal, the thermostat will close the FCU valve with the fan kept running.
4-pipe Configuration	In cooling, when the room temperature is higher than set-point, the cooling Valve will be opened. Otherwise it will be closed. Heating valve is always closed. In heating, When the room temperature is lower than set-point, the heating valve will be opened. Otherwise it will be closed. Cooling valve is always closed.
Keypad Lock Function	**Keypad Lock:** If there is no key operation for 30 seconds, the keypad will be locked automatically. **Keypad Unlock:** Press "🌀" for 5 seconds to unlock.
Low Temperature Protection Function	**Turn on:** When the room temperature is lower than 5°C, the thermostat will automatically turn on the fan and valve (with "☀" showing). When the room temperature is increased to 7°C, the thermostat will automatically stop output.
Low Temperature Protection Setting	**Turn off:** Press "M" and hold for 3 seconds, it will display "OF" or "ON". Press "▲" or "▼" to adjust the parameter. "OF" indicates low temperature protection is turned off, "ON" indicates low temperature protection function is turned on (Factory default setting is "OF").
Offset adjustment of temperature display	In case that the user wants the displayed temperature on the thermostat higher or lower than the real temperature(±5°C), the following operations could be taken: **Turn off:** Press "▲" and "▼" at the same time for 3 seconds, it will display "XX°C", press "▲" or "▼" to adjust the temperature value, it will be automatically confirmed after 6 seconds.
Alarm	If the sensor has failure, the thermostat will close the fan and valve, displaying "E1" or "E2". E1: Sensor in short circuit alarm E2: Sensor in open circuit alarm It displays "HI" when the temperature is higher than 55°C , displaying "LO" when the temperature is lower than 0°C.

Installation instruction

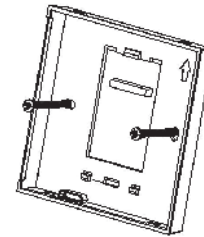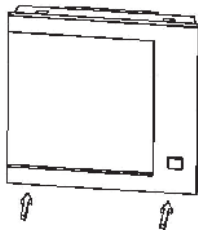|	
1. Open the left clip and right clip with screw driver.	**2.** Open the front cover. Take off the wires.
3. Connect the wire according to the wiring diagram.	**4.** Mount the housing to the wall using the two screws in the packing box.
5. Close the front cover.	**Note:** Make sure the wires are connected per the wiring diagram. Avoid water, mud, paints and other substances from getting into the PCB of thermostat.

Dimensions

38.6 mm

90.0 mm

90.0 mm

14.2 mm

38.6 mm

90.0 mm

86.8 mm

86.8 mm

90.0 mm

60 mm