

Mounting instructions

Mounting method

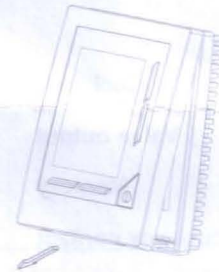
1. Open left clip with screwdriver



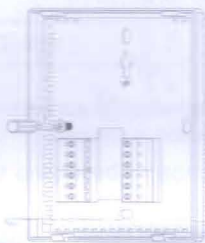
2. Open right clip with screwdriver



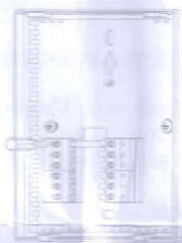
3. Open front cover



4. Mount back housing



5. Wiring

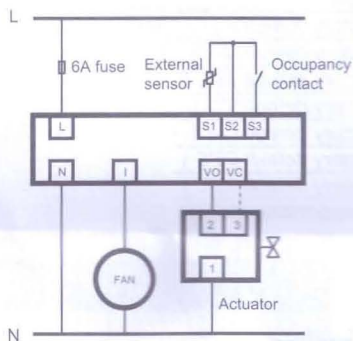


6. Close front cover

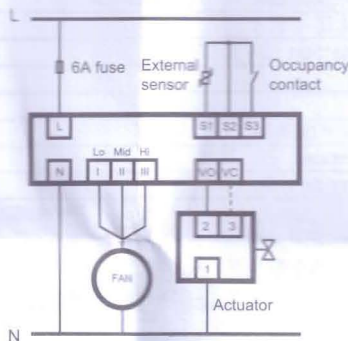


Wiring diagram

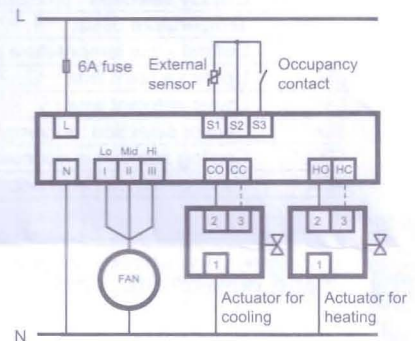
CFU-D221-SS



CFU-D221 / D222



CFU-D422



2-wire actuator connection

3-wire actuator connection

Operation

Modes	On / off, cooling ❄ / heating ☀ Press ON button once to switch on; press and hold for 2 seconds to switch off. Press M button to switch between cooling or heating mode. *For CFU-D422, auto changeover between cooling and heating according setpoint.
Fan speed	3 fan speed (Low 🌀, Middle 🌀, High 🌀) and Auto 🌀 (🌀 ▶ 🌀 ▶ 🌀) Auto fan speed is determined by temperature between setpoint and ambient temperature; i.e. 1K - Low 🌀; 2K - Middle 🌀; 3K - High 🌀.
Backlight	Backlight lights for 120 seconds when pressing any button.
Valve output	🌀 icon appears when valve open.
Memory	Last status (e.g. mode, setpoint, fan speed) will be resumed after power failure or switch off.
Occupancy contact	Contact OPEN, thermostat runs in normal mode. Contact CLOSE, thermostat runs in economy mode.
Display selection	Setpoint or ambient temperature, adjustable in p-setting mode.
Temperature offset	Ambient temperature display can offset, from -3K to +3K, in p-setting mode.
Low temperature protection (Defrost)	When thermostat is switched OFF and ambient temperature < 5°C, thermostat automatically starts in heating mode until ambient temperature rise to 7°C.
Sensor select	Built-in or external sensor, adjustable in p-setting mode.
Key lock	Press and hold ▲ and ▼ for 5 seconds, all buttons are locked when 🔒 appears. When key lock is active, no function will perform when any button is pressed. Press and hold ▲ and ▼ for 5 seconds to unlock.
Error code	E1 : Built-in sensor short circuit. E2 : Built-in sensor open circuit. E3 : External sensor short circuit. E4 : External sensor open circuit.

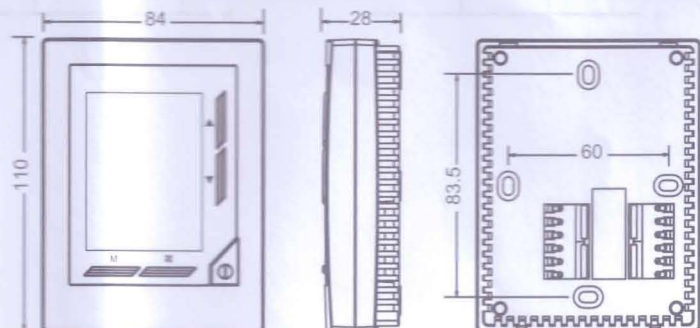
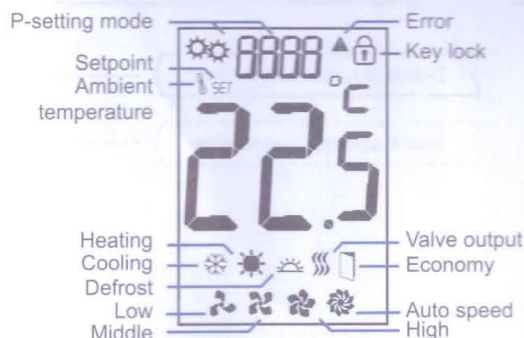
Parameter setting mode

Entering p-setting mode	When thermostat is switched OFF, press and hold ▲ for 5 seconds, ⚙ appears indicating thermostat is in p-setting mode.
Operate in p-setting mode	Press ON to change setting parameters, press ▲ and ▼ to change setting; d1 SP > DSEt > dEFr > USP > LSP > SEN > COOL* > HEAt*
Quit p-setting mode	When no button is pressed over 10 seconds, setting will be saved and quit p-setting mode.

d1 SP	Display selection : ambient temperature "rEt" / setpoint "SP"	(factory default rEt)
DSEt	Temperature offset : -3, -2, -1, 0, 1, 2, 3	(factory default 0)
dEFr	Defrost - low temperature protection : On / OFF	(factory default OFF)
USP	Upper setpoint limit : 10...35°C	(factory default 35°C)
LSP	Lower setpoint limit : 5...30°C	(factory default 5°C)
SEN	Sensor selection : external "Et" / built-in "InEt"	(factory default InEt)
COOL*	Cooling setpoint in economy mode : 25...30°C	(factory default 28°C)
HEAt*	Heating setpoint in economy mode : 15...20°C	(factory default 15°C)

*Available on corresponding models

LCD display and dimensions (mm)



China RoHS – Product Declaration

Products

- Electrical accessory
- Mechanical accessory
- Sensor

Hazardous Substances Declaration

Components	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent Chromium (CrVI)	Polybrominated biphenyls (PBB)	Polybrominated diphenyl ethers (PBDE)
Diode (1N4007)	X	O	O	O	O	O
Thermistor	X	O	O	O	O	O
Diode (P6KE43A)	X	O	O	O	O	O
FRD	X	O	O	O	O	O

This table is prepared in accordance with the provisions of SJ/T 11364.

o: Indicates that said hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement of GB/T 26572.

x: Indicates that said hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement of GB/T 26572.