



Technical Data

Nominal Voltage	230 VAC
Nominal Voltage Range	85-260 VAC
Temperature Display Range	0...55°C [<0°C : LO, >55°C : HI]
Sensing Element & Control	NTC Thermistor, 100k ohm @ 25°C
System Switch	On/Off, Cooling/Heating
Fan Control Switch	High-Med-Low or Auto-speed
LCD Display	0.5 K increase/decrease
Setpoint Range	5...35°C
Body Material	Fire-retardant ABS
Electrical Ratings	Relay output contact 3A Resistive, 1A Inductive, 250 VAC 50/60 Hz
	Fan switch 3A Resistive, 1A Inductive, AC 250V 50/60 Hz
Control Signal	On/Off Control, 3-wires & spring return 2 wires Cooling or Heating (2-pipe system)
Temperature Range	Operating: 0 to 45°C Storage: 0 to 50°C
Protection Class	II □
Wiring Connections	Terminal wiring 0.5 ... 1.5 mm ²
Agency Approval	LV Directive CE according to 2006/95/EC EMC CE according to 2004/108/EC
Ambient Humidity	max. 95% r.h., non-condensing
Weight	140 g
Dimensions (L x H x D)	86 x 86 x 14 (mm)
Degree of Protection	IP 30

Precios de Lista

EXT-CF230-D202-AF	\$90.00
EXT-CF230-D402-AF	\$100.00

Overview of Functions

Slim type EXT-CF230-D202-AF and EXT-CF230-D402-AF thermostat provides the foundation for modern fancoil applications.

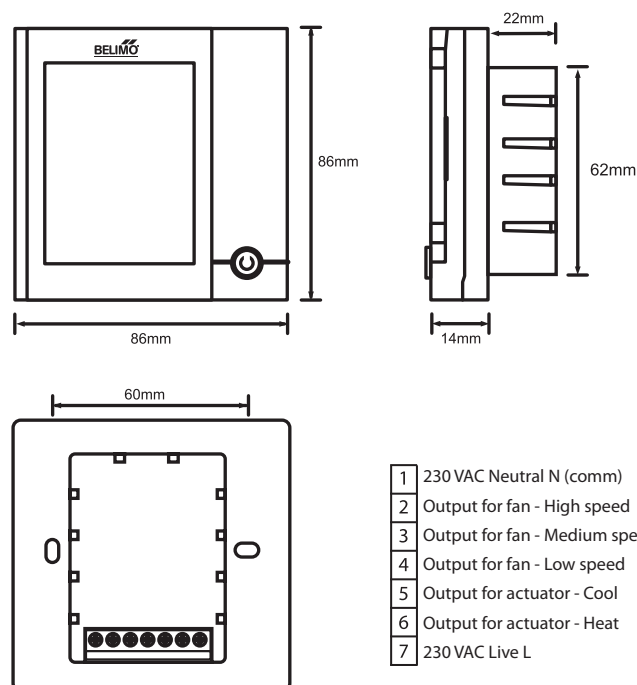
Features

- Large LCD with blue backlight
- Stylish appearance with hidden buttons
- For 2 or 3 wires on-off controlled devices in 2-pipe FCU system (EXT-CF230-D202-AF)
- For 2 wires on-off controlled devices in 4-pipe FCU system (EXT-CF230-D402-AF)
- 3 speed / auto-speed for fan controls
- Defrost - low temperature protection
- Temperature off-set adjustment
- Temperature / setpoint display selection
- Memory retention
- Set point range adjustment
- °C display

Basic Features

Modes	On/Off - Cooling ❄ / Heating 🔥
Fan speed	3 speed (Low 🌀, Medium 🌀, High 🌀) / Auto 🌀 Auto speed: difference between setpoint and ambient temperature, 1 K - Low 🌀; 2 K - Medium 🌀; 3 K - High 🌀
Defrost	Low temperature protection. When the unit in "OFF" status and ambient temperature lower than 5°C, it will switch on automatically in heat mode with "🔥" showing. When the temperature reached 7°C, it will stop automatically.
Backlight	The backlight will light up 7 seconds whenever button is pressed. By pressing "🔥", backlight light up 30 seconds.
Valve	When the valve is opening, the icon "🔧" displays.
Restart	When "RST" button is pressed, the thermostat will restart with last saved setting.
Memory	All last saved parameters will be kept after power failure or power off.

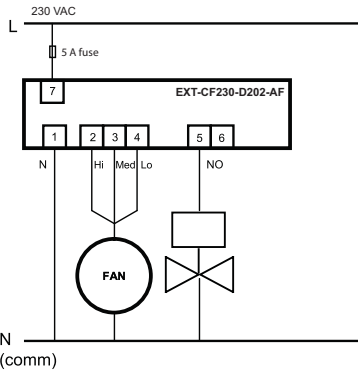
Dimension and Terminals



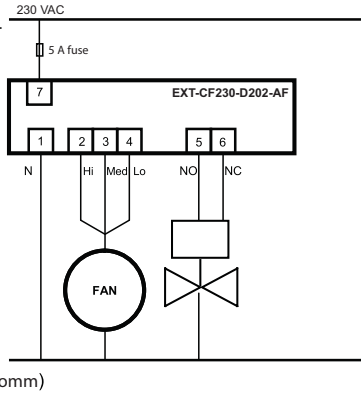
Maintenance mode	
When the unit in "OFF" status, press "▲" for 5 seconds to enter maintenance mode. Press "⊕" to change over from " disp > Oset > defr > usp > lsp ". If button is not pressed over 10 seconds, it will return to normal mode automatically.	
disp	Display selection - ambient temperature (rt) / setpoint (sp) In maintenance mode " disp ", press "▲,▼" to select " rt " or " sp ". " rt " : display ambient temperature (factory setting) " sp " : display setpoint
Oset	Temperature offset adjustment In maintenance mode " Oset ", press "▲,▼" to adjust ambient temperature reading. -3, -2, -1, 0 , 1, 2, 3. (factory setting "0")
defr	Defrost - low temperature protection In maintenance mode " defr ", press "▲,▼" to adjust. " On " = ON " Off " = OFF (factory setting)
usp	Upper set point adjustment (factory setting 35°C) In maintenance mode " usp ", press "▲,▼" to adjust max. temperature set point.
lsp	Lower set point adjustment (factory setting 35°C) In maintenance mode " lsp ", press "▲,▼" to adjust min. temperature set point.

 To be opened by accredited servicing agents only Electronic control - Type 2.B action (micro-disconnection operation). Separate collection for electrical and electronic equipment. 

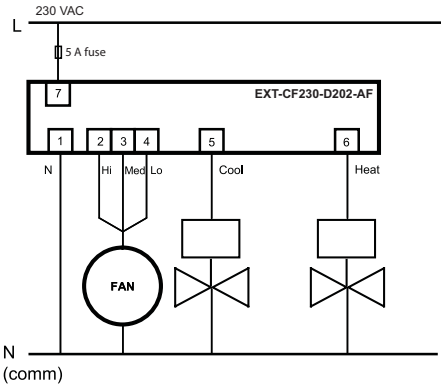
Wiring Diagrams



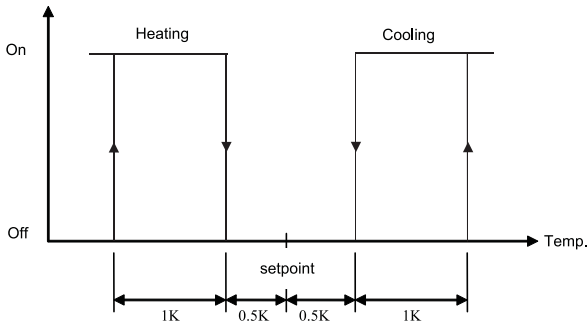
On-Off Control - 2 Wires



On-Off Control - 3 Wires



On-Off Control - 2 Wires



Auto Change-Over

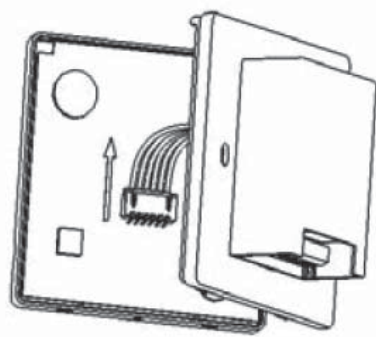
Installation Manual

Mounting Method

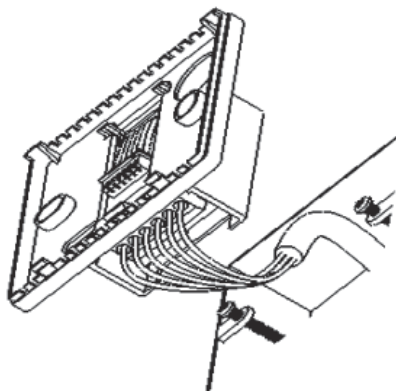
1 open the clip with screw driver



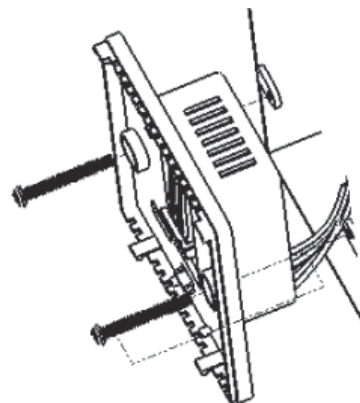
2 unplug the connector



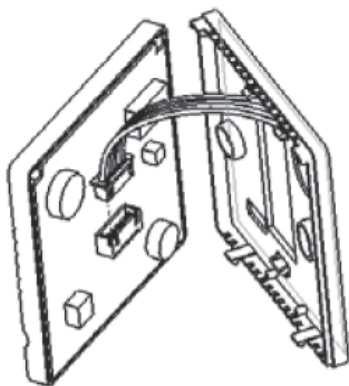
3 wiring



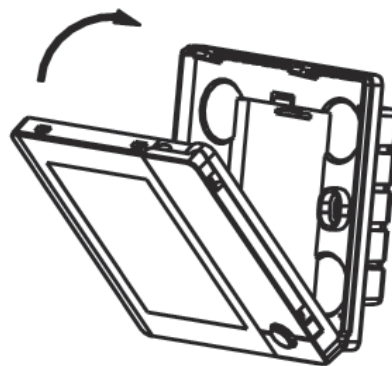
4 mount it with screws



5 plug in the connector



6 close it with clip



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