GRUNER
ASIA PACIFIC

Mounting - Instruction

CRF1-T-FC04 Fan Coil Thermostat
Mounting - Programming

Description

The Fan Coil Thermostat CRF1-T-FC04 is designed to control a Fan Coil Unit

- » EC motor fan, 24V/2x ON/OFF Valve
- » Power supply 24 VAC
- » Use together with Gruner Valve Actuators and Valves from Gruner
- » High quality, economical Fan Coil solution

Use

ON/OFF:

Press power the button " ⏻ " to switch between ON and OFF mode of the thermostat. In OFF Mode all functions are idled.

Temperature Setting: Press "▼" to reduce or "▲" to increase the temperature setpoint

Mode: Press "M" to change mode between Cool, Heat and Ventilation, mode will be confirmed by pressing other button or automatically after 6 seconds

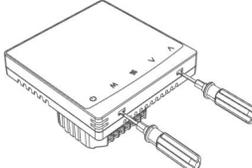**Fan:** Press " ✿ " to change between fan speed 1-2-3 or Auto fan mode.
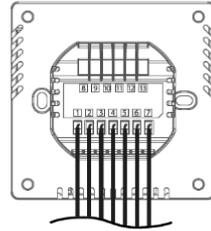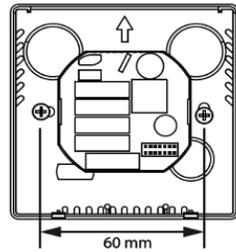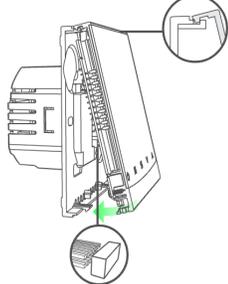
Backlight: Pressing any key will activate the backlight. Backlights will switch off after 6 seconds without activities

Lock keypad: (when Item 11 set to 1/2/3): Press " ▼" and "▲" for 3 seconds.

Unlock keypad: Press " ▼" and "▲" for 3 seconds.

Installation

1) Remove the front cover by prying hooks with a flat screw driver from the backplate.	2) For the convenience of installation, the first step is to wire the volt-free wires, low-voltage wires then high voltage wires. Check the wires are property connected.	3) Flush mounting in a 60mm wall box. Make sure the back cover is in the appropriate position (according to the arrow on it)	4) Fit the front part of the casing to the top edge of the back plate. Make sure the pins are properly positioned. Push the front cover into the back plate until you hear a "click" sound.

Parameter Set

Switch off the thermostat and press "M" and " ▲ " 5 seconds to enter parameter setting menu, press the "M" or " ✿ " to change the item, and press ▼ ▲ to change the value, press power button " ⏻ " or wait 30S to exit and save all settings .

No.	Name of Parameter	Parameter definition
1	System type	0:2-pipe fan coil unit (Default) 1: 4-pipe fan coil unit 2: Reserved 3: Reserved
2	Auto Mode	0: manual (Default) 1: auto
3	Sensor type	1: internal sensor only (Default) 2: external sensor only 3: internal sensor& external sensor
4	Fan control	0: fan stop after reach temperature setpoint (Default) 1: fan continuous running after reach setpoint
5	Unoccupancy status	0: cut off all outputs 1: setback setpoint (Default)
6	Temperature Display	0 = show room temperature (Default) 1 = show setpoint
7	Display Temp. adjustment	-4C~4C Default=0)
8	Dead band	1-4C(Default=1)
9	Auto heat pipe temperature	21~40C (Default value 22C), for 2-pipe auto mode with external sensor only
10	Auto Cool pipe temperature	10~20(Default value 18C) for 2-pipe auto mode with external sensor only
11	Keypad Lockout	0 All keys available(default) 1 All buttons locked out 2 System button Locked out 3 All buttons locked out except System
12	Power Up Status	0: System Off(default) 1: System last state before power off 2: System On
13	Energy saving-- Dry Contact (Key Card)	0: If the card is inserted, S1 and COM will be open (NC Dry Contact as Default) 1: If the card is inserted, S1 and COM will be closed (NO Dry Contact)
14	Freeze Protection	0: Disable (Default), 1: Enable
15	Programmable	1: non-programmable 2: Timer on/off (Default) 3: Programmable 4: Timer + Programmable
16	Preheat Temp.	21-50C(Default=38)
17	Minimum setpoint	5-18C (Default value=5C)
18	Cooling Setpoint setback	22-32C(Default=28)
19	Maximum setpoint	20-35C (Default value=35C)
20	Heating Setpoint setback	10-21C(Default=18)
21	Cooling only	0: Cool, Heat & Ventilation (Default) 1: Cool & Ventilation
22	N/A	N/A
23	N/A	N/A

Installation Notes

Observe the following general regulation for engineering and implementation.
- » All relevant national and heavy power regulations.
- » Other country specific regulations.
- » Country-specific regulations.
- » Local electrical supply authority regulation.
- » Schematics, cable listings, dispositions, specification and arrangements from the customer or engineering office in charge.
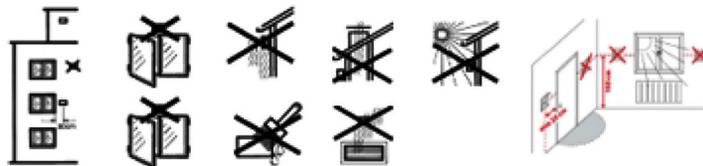- » Third party specifications, e.g. general contractors or constructors.
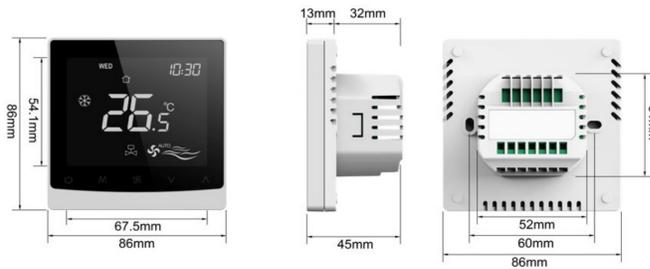
Disposal Notes

The device is considered an electronic device for disposal in terms of the EUROPEAN DIRECTIVE 2012/19/EU.
- » The device may not be disposed as domestic garbage.
- » The device must be disposed through channels provided for this purpose.
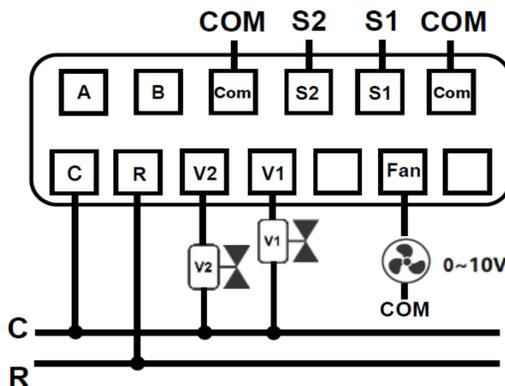- » It is mandatory to comply with local currently applying laws and regulations.

Mounting Advice

Dimension

Wiring Diagram

CRF1-T-FC04

2-pipe: V1 Cooling/Heating valve

4-pipe: V1: Cooling valve

V2: Heating valve

Fan, COM: 0~10V EC motor fan

S1,COM: Dry contact

S2,COM: Remote sensor

Terminal Definition: 1: C; 2:R; 3:V2; 4: V1; 5&7: N/A; 6:Fan; 8: A; 9:B; 10:COM; 11:S2; 12:S1; 13:COM