Room Temperature Controller Fan Coil, SM
RTF/A 1.1, 2CDG 006 138 R0001

2CDC 071 030 F0008

The Room Temperature Controller Fan Coil, RTF/A 1.1 is a constant KNX room temperature controller for Fans/Coils in 2 and 4-pipe systems.

It measures the current room temperature (actual value) and sends a continuous control variable (0...100 %) to a Fan Coil actuator in order to achieve the desired room temperature (target value).

The RTF/A 1.1 operates both in heating and cooling mode. Furthermore, the fan stage can be manually selected via a button.

Switches or push buttons (floating) can be connected for switching, dimming or control of shutters via three binary inputs (see external interface).

The RTF/A 1.1 supports four operating modes to simply matching the setting values to comfort and energy conservation requirements:

- Comfort
- Standby
- Night time operation
- Frost protection operation

The RTF/A 1.1 does not require an additional power supply. The KNX bus coupler is integrated into the device.

Technical data

Power supply	– Operating voltage – Current consumption KNX – Power consumption via KNX	21...30 V DC, made available by the bus 10 mA 300 mW
Inputs	– Number – Contact voltage – Contact current – Maximum cable length	3 3.3 V supplied internally 1 mA 5 m
Connections	– KNX – Load circuits (1 terminal per contact) – Cable cross-section – Tightening torque	Connection terminal, 0.8 mm Ø, single core Screw terminal Max 1.5 mm^2 stranded Max 1.5 mm^2 single core Recommended: 0.75 – 1 mm^2 0.6 Nm
Operating and display elements	– Temperature setting – Fan stages – 5 LEDs	Rotary adjustment switch Push buttons 3 fan stages, off, automatic mode
KNX safety extra low voltage	– SELV 24 V DC	
Enclosure	– IP 21	to DIN EN 60 529
Safety class	– III	to DIN EN 61 140
Temperature range	– Operation – Storage – Transport	0° C ... + 50° C – 25° C ... + 55° C – 25° C ... + 70° C
Design	– Surface mount, SM – Dimensions (H x W x D)	Design device 80 x 84 x 28 mm
Weight	– in kg	0.065
Mounting position	– as required	
Housing, colour	– Plastic housing, white	
Approvals	– KNX to EN 50 090-2-2	Certification
CE mark	– in accordance with the EMC guideline and low voltage guideline	

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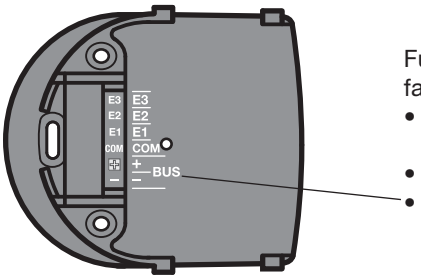
Application program	Max. number of communication objects	Max. number of group addresses	Max. number of associations
FanCoil Operation Control /1	18	34	35

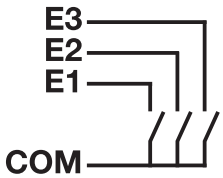
Note

The programming requires EIB Software Tool ETS2 V1.3 or higher.
Refer to the product manual “Room Temperature Controller Fan Coil, RTF/A 1.1” for a detailed description. The product manual can be downloaded free on the internet at www.abb.de/KNX.

Circuit diagram



Functionality of external interfaces, potential range, contacts
- E1 – E3: switching, dimming, blinds
- E3: external actual value
- Connect the bus cable to the bus line (red +/black –). (Note the polarity!)



The inputs with the functionality “switching” can also be used as window contact or presence indicator.

Dimensional drawing