The fan coil controller controls motorized and thermal heating and cooling valves and multiphase fans via ABB i-bus or as a standalone device in combination with the temperature sensor TS/K 1.1.

Two binary inputs for 24 V AC sensor contacts are available, e.g. for a window contact and condensation control. The fan coil controller requires a 230 V AC power supply. The 24 V AC auxiliary voltage for the binary inputs is provided by the device.

Technical data

**Power Supply**
- Operating voltage: 230 V AC +/- 10 %, 50 ... 60 Hz
- Power consumption via EIB: max. 250 mW
- Power consumption total: max. 5 W

**Outputs for heating/cooling**
- 2 semiconductor switches for the connection of motorized or thermal valves
- Rated voltage: 24 V AC
- Rated current: 250 mA
- Steady load: max. 5 W (ohmic)
- Cable length: max. 20 m

**Outputs for ventilation**
- 3 potential-free contacts for the connection of up to three-phased ventilators
- Rated voltage: 230 V AC
- Rated current: 6 A

**Output for auxiliary voltage**
- For the supply of binary inputs
- Rated voltage: 24 V AC
- Rated current: 5 mA

**Inputs sensor contacts**
- 2 binary inputs for a window contact and condensation control
- Rated current: 24 V AC
- Cable length: max. 30 m

**Input temperature**
- Temperature sensor TS/K 1.1 for measuring of room temperature
- Potentiometer: 4.7 kW, +/- 10 % linear as setpoint temperature adjuster

**Operating and display elements**
- LED red for entering the physical address and for testing output functions
- Programming button for entering the physical address
- Test button for testing heating, cooling and ventilation outputs

**Connections**
- 230 V AC supply
- Heating output
  - 2 screw terminals (green)
  - Wire range: finely-stranded: 1.0 – 1.5 mm²
  - single-core: 1.0 mm²

- 3 screw terminals (red)
  - Wire range: finely-stranded: 0.75 – 1.5 mm²
  - single-core: 0.75 – 1.0 mm²
## ABB i-bus® EIB / KNX Fan Coil Controller, REG
**FC/S 1.1, 2CDG 120 001 R0011**

### General Information
- **Type of protection**: IP 20, EN 60 529
- **Ambient temperature range**
  - **Operation**: − 5 °C ... + 45 °C
  - **Storage**: − 25 °C ... + 55 °C
  - **Transport**: − 25 °C ... + 70 °C
- **Design**: Modular installation device
- **Housing, colour**: Plastic housing, grey/black
- **Mounting**: on 35 mm mounting rail, DIN EN 60 715
- **Dimensions**: 86 x 105 x 58 mm (H x W x D)
- **Mounting depth/Width**: 58 mm/6 modules at 17.5 mm
- **Weight**: 0.4 kg
- **Certification**: EIB und KNX certified
- **CE norm**: in accordance with the EMC guideline and the low voltage guideline

### Wire Range
- **Cooling output**: 3 screw terminals (blue)
  - Wire range:
    - finely-stranded: 0.75 – 1.5 mm²
    - single-core: 0.75 – 1.0 mm²
- **Ventilation outputs**: 5 screw terminals (green)
  - Wire range:
    - finely-stranded: 1.0 – 1.5 mm²
    - single-core: 1.0 mm²
- **Binary inputs**: je 2 screw terminals (green)
  - Wire range:
    - finely-stranded: 0.5 – 1.5 mm²
    - single-core: 0.5 – 0.75 mm²
- **Temperature sensor/potentiometer**: 4 screw terminals (green)
  - Wire range:
    - finely-stranded: 0.5 – 1.5 mm²
    - single-core: 0.5 – 0.75 mm²
- **Auxiliary voltage**: 2 screw terminals (green)
  - Wire range:
    - finely-stranded: 0.5 – 1.5 mm²
    - single-core: 0.5 – 0.75 mm²
- **EIB / KNX**: 3 screw terminals (black)
  - Wire range:
    - finely-stranded: 0.3 – 0.5 mm²

### Application programs

<table>
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<th>Application programs</th>
<th>Number of communication objects</th>
<th>Max. number of group addresses</th>
<th>Max. number of associations</th>
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**FC/S 1.1**
ABB i-bus® EIB / KNX
Fan Coil Controller, REG
FC/S 1.1, 2CDG 120 001 R0011

Circuit diagram

Dimension drawing