

X-AIRCONTROL

MODULAR, STAND-ALONE ROOM CONTROL SYSTEM, SPECIALLY FOR DECENTRALISED VENTILATION SYSTEMS (WITH BUS COMMUNICATION AS AN OPTION)

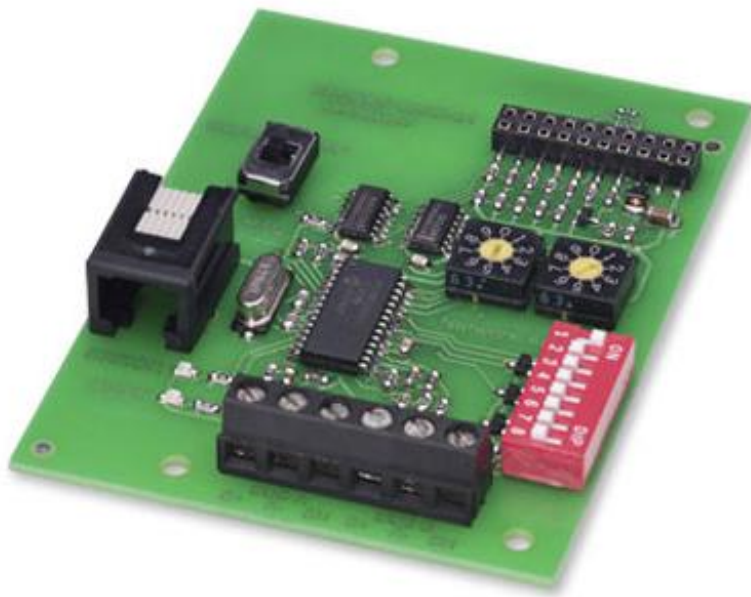
Easy-to-operate single room control system which can be combined with façade ventilation units to provide demand-based ventilation and extract ventilation and enable the control of the water-side components of the heating and cooling circuits

- Plug and play solution
- Main PCB for connecting the integral components
- Master PCB for connecting components which are required for each room, e.g. control panels or sensors
- Control valves with G½" external thread and flat seal
- 24 V AC or 230 V AC supply voltage
- Thermoelectric valve actuator, 0 – 10 V, 24 V DC

Optional equipment and accessories

- Various sensors, e.g. PIR sensor, temperature sensor, room air quality sensor or humidity sensor
- Plug-in real time clock module (RTC) for time-dependent operating modes
- Expansion modules with interfaces for open bus protocols (LON, BACnet and Modbus)
- Control panel





Application

- Single room control system to be combined with decentralised ventilation units
- Control of the functions of a decentralised ventilation unit
- Individual control strategies
- Modular control equipment with expansion PCBs that allow for the individual adjustment of functions to the project-specific conditions
- Optional expansion to allow for communication with the BMS using the LON, BACnet or Modbus protocol

- Plug-in communication cable for easy wiring (plug and play)

Special characteristics

- Modular control system with several components that can be individually combined
- LON, BACnet or Modbus interface as an option
- Master-slave combinations are available (up to 15 slaves per master)
- Valves with G $\frac{1}{2}$ " external thread and flat seal
- Valves can be used for up to PN 16
- Valve actuator with bayonet fixing

Components

- Control module (main PCB)
- Room module (master)
- Expansion module RTC (real time clock)
- Expansion module LON
- Expansion module BACnet/Modbus
- VVP47.10-x.xx - straight-way valve (K_{VS} 0.25; 0.4; 0.63 or 1.0)
- Compression coupler
- Valve actuator 24 V DC, control signal 0 – 10 V, modulating
- Temperature sensors for fresh air, supply air etc. (e.g. NTC 10 k Ω)
- Humidity sensor
- VOC sensor
- Control panel
- Alternative control panel with digital display
- Alternative control panel for automatic control (e.g. in schools)

Accessories

- 5 m configuration cable and USB-RS485 adapter
- Wireless communication with BlueCon adapter

Materials and surfaces

- Casing made of galvanised steel, powder-coated RAL 9005 (unless fitted inside the decentralised ventilation unit)

TECHNICAL INFORMATION

Functional description

The control module, which is required for each decentralised ventilation unit, controls all functions that are necessary for operation, e.g. providing the control signal for fans and actuators.

When a room module is added, the control module can be used as a master module.

Additional inputs and interfaces allow for the connection of components that are required for room control.

Adding the RTC module to the room module allows for using a timer programme; adding a LON or BACnet/Modbus PCB to the room module allows for integrating the room module with a BMS.

Special characteristics

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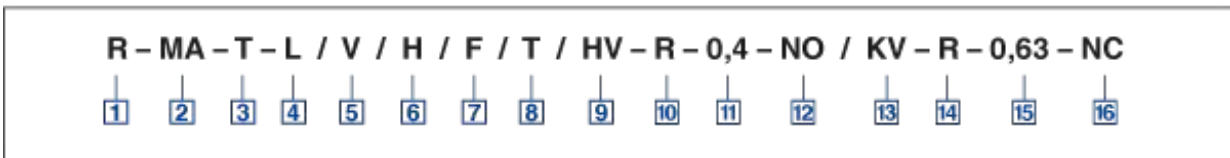
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Technical data

TECHNICAL DATA

- Operating temperature: 0 to 50 °C
- Relative humidity: < 90 %, non-condensing
- Air pressure: > 700 hPa
- Storage temperature: -20 to 70 °C
- Power consumption: 6.5 to 14.5 W, depending on equipment

X-AIRCONTROL



1 Accessories

R Control

2 Variant

MA Master

SL Slave

3 Real time clock

No entry: none

T With RTC module

4 Expansion module

No entry: none

L With LON module

B With BACnet or Modbus module

5 VOC sensor

No entry: none

V With

6 Humidity sensor

No entry: none

H With

7 Frost protection

No entry: none

F With

9 Valve – heating circuit

No entry: none

HV With

10 Compression coupler – heating circuit

No entry: none

R With

11 K_{VS} value – heating circuit

0.25

0.40

0.63

1.00

12 Valve setting – heating circuit

NO Normally open

NC Normally closed

13 Valve – cooling circuit

No entry: none

KV With

14 Compression coupler – cooling circuit

No entry: none

R With

15 K_{KS} value – cooling circuit

0.25

8 Dew point sensor

No entry: none
T With

0.40
0.63
1.00

16 Valve setting – cooling circuit

NO Normally open
NC Normally closed

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