

Product information

FSL-CONTROL

Control for decentralised ventilation units

PI/FSL/5/EN/1

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The system

FSL-CONTROL is a single room control for the decentralised FSL ventilation systems. It can be used in conjunction with purely supply air units as well as with various combined supply air/return air/recirculation assemblies. The complete FSL system allows conditioning of room air with control of the room temperature in conformance with the specified minimum fresh air rates. The cascaded control of the room and supply air temperature ensures that the air temperatures are within specified limits, so the heating and cooling system meets high requirements in terms of comfort and wellbeing.

The components

FSL-CONTROL comprises the following components:

- Heating and cooling water valves
- Valve actuators
- Supply air temperature sensor
- In-room control unit including preset, mode switch AUTO/0/1/2/3
- Controller integrated in or on the FSL unit

Mode of operation

This control can be used to set three automatic modes (Present, Ready, Absent). Additionally the possibility of a manual mode and thus a manual influencing control exists. For each of the three automatic modes the room temperature, supply air temperature limits and minimum fresh air flow rate can be preset independently of each other. The valves of the heat exchanger and the 3-speed fans are operated according to the difference between the actual conditions and the presets for the room and supply air temperature. The minimum outside air flow (adjustable separately for each mode) is maintained. It is possible to connect various analog in-room control units (see photos) as well as LON in-room control units. Communication with the building services management system is routed over LONWORKS.



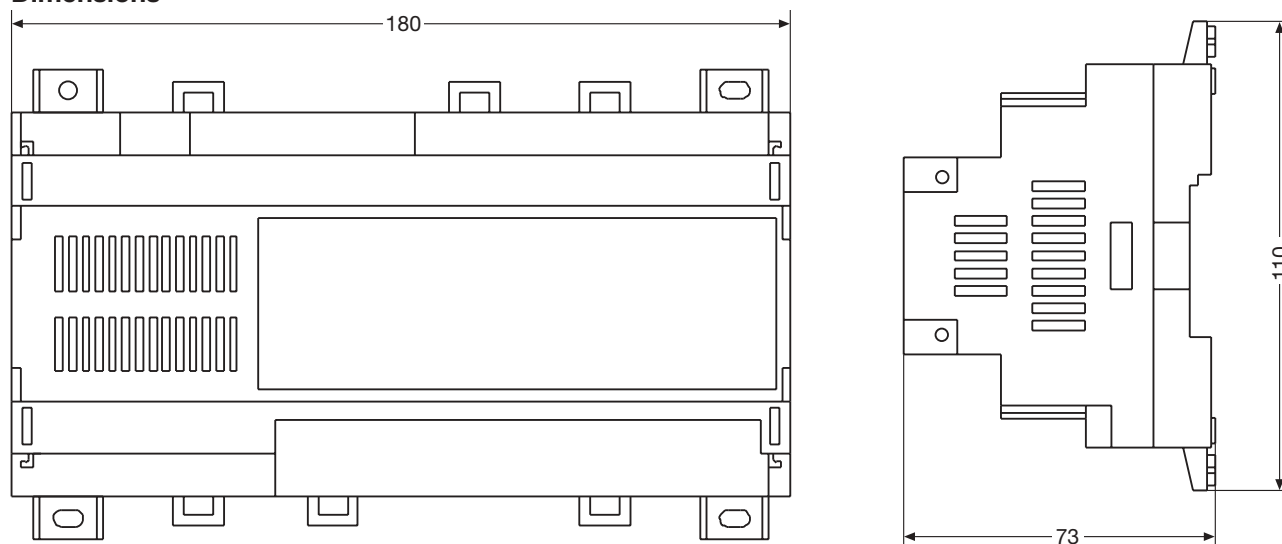
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Dimensions



Technical data - Controller

Supply voltage:	230 Vac +10%/-15% (24 Vac also possible)
Power consumption:	20 VA
Rated frequency:	50/60 Hz
Current load capacity per output:	max. 6 A
Protection:	IP 30
Bus interface:	FTT-10A
Temperature range:	0...50 °C
Relative humidity:	5...90%, non-condensing
EMC:	EN 50081-1, EN 50082-2
Mounting:	rail EN 50022, 3.5 x 7.5
Dimensions:	180 mm x 110 mm x 73 mm

System benefits

- Optimised complete system (control and ventilation units) all from one source
- Reduction of the number of interfaces between the various subsystems
- Simplified on-site installation, as valves, valve actuators and controller are factory-assembled and wired
- Minimal on-site wiring based on use of LON technology