

ME210

Triac amplifier



Summary

ME220 is a triac module controlled by a 24 V AC signal. It amplifies the 24 V AC PWM output signal from an IRC controller or room unit (UI..., UX..., UC..., FC..., US...), which are able to control maximum 2 actuators per output only.

Application

- Control of more radiators, fan coils, or any other heating or cooling circuits by a single controller.

Function

In a plastic casing suitable for mounting into a flush box there is a board with terminals, triac and other components. When the input is energized the triac opens and gives 24 V AC control voltage for the actuators at the output terminals.

If more radiators or cooling panels are situated in a single space and controlled together, some of them may be hot while others stay cold. This is due to the characteristics of the actuator and valve set together with the hydraulic parameters of the installation, and it does not indicate wrong function of the controller or of the triac amplifier.

Technical data

| | |
|----------------------------|--|
| Control signal | 24 V AC |
| Input current | 20 mA |
| Working temperature | 0...70 °C |
| Number of outputs (triacs) | 1 |
| Output load | max. 2 A, e.g. 4 thermic actuators STA71 |
| Terminals | screw terminals, wire 0.14...1 mm ² |
| Dimensions | 49 × 49 × 15 mm |

Terminals

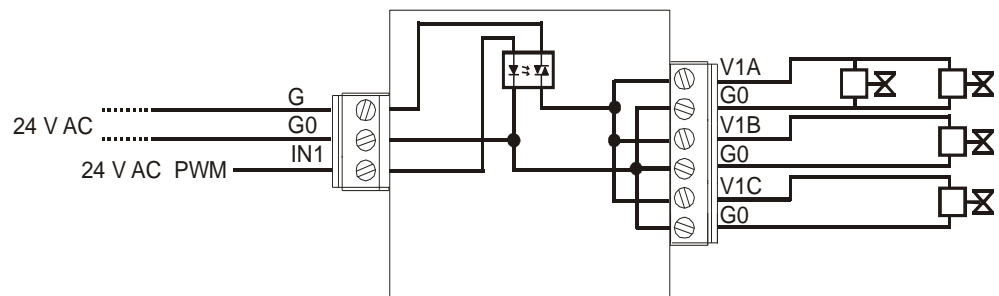
Inputs (screw terminals)

| | |
|-----|-----------------------------------|
| G | power 24 V AC |
| G0 | common ground |
| IN1 | control input for triac (24 V AC) |

Outputs (screw terminals)

| | |
|-----|--------------------|
| V1A | output 24 V AC PWM |
| G0 | common ground |
| V1B | output 24 V AC PWM |
| G0 | common ground |
| V1C | output 24 V AC PWM |
| G0 | common ground |

Connection



Do not overload the output – maximum triac load is 2 A. Note that the starting currents of cold thermic actuators may be higher than the nominal currents when the body is partially heated.

The output signal is brought to all terminals (V1A, V1B, V1C) for more comfortable installation.