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Temperature Control

digital 1- and 2-stage thermostats and controllers

GR42-4

APPLICATION FIELD: the GR 42-4 is an electronic 2-stage thermostat with two independent outputs. Conceived for industrial applications. The measuring range varies between -25 χ +270°C (-13 χ +518°F). On request also voltage or current input signals from transducers.

CARRIED OUT ACTION: the GR 42-4 operates as a cooling and/or heating regulator on two outputs each other independent. Two different set points and action type (direct or reverse) can be chosen. Alarm managing is also available.

SETTING: the set point temperature and the differential (hysteresis), are set by the user. Users are allowed to manage operating parameters (max./min. temperature alarms, °C/° F choice, probe error correction, keyboard locking, etc.).

USER-FRIENDSHIP: the GR 42-4 was conceived on purpose to be installed on switchboards, panel boards and cooling units.

INPUT: the GR 42-4 is provided with 1 input for PTC or PTC300 standard probes. It can accept also different input types, i.e. 0 χ 1 V, 0 χ 10 V voltage signals, 4 χ 20 mA current signals. Furthermore, it can manage 1 digital input to check door state (open/close), for energy saving, etc. The digital input can be also opto-insulated.

OUTPUT: it is provided with 2 relays for 8 A

TECHNICAL SPECIFICATIONS
Housing: self-extinguish UL94V0 ABS plastics, white colour
Size: frontal 45 x 71 mm; depth 58 mm (4 DIN modules)

Mounting: DIN rail for panel boards

Protection: IP 65 for the frontal panel
Connections: on screw terminal board for wires with cross section area < 2,5 mm2

Display: LED, 3 digits, 12.5 mm high

Data storing: on EEP-ROM not volatile memory
Operating temperature: -5 χ +65 °C (+23 χ +149 °F)
Stocking temperature: -30 χ +75 °C (-22 χ +167 °F)
Relative humidity: 20 χ 85 % (not condensing)
Measure range: -55 χ +150 °C (-67 χ +302°F) for PTC probe; -25 χ +270° C (-13 χ +518° F) for PTC-300 probe
Output: 2 on a SPDT 8(3) A 250 Vac relay
Analogue input: 1 for PTC thermostatic probe; 0 χ 1 V, 0 χ 10 V voltage signals; 4 χ 20 mA current signals

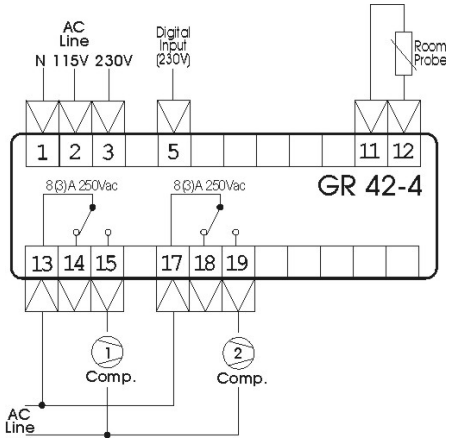
Resolution: 1°C (1°F) or 0.1°C (0.2°F)

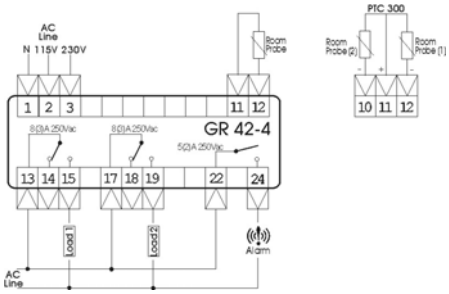
Accuracy: better than 0.5% f.s. ± 1 digit

Power supply: standard 12 Vac/dc ± 15%

load. The main one (compressor) can be for 16 A on request. The alarm condition can be managed through an internal buzzer, or through a 5 A relay, for external drive (also combined).

POWER SUPPLY: it can be connected directly to the supply mains with 230-115 Vac voltage through the internal transformer.





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