REGU 050 / REV 2 / 18/06/03
Bourgeois REGU050

Description:

The REGU050 (REGU 051) is a heating controller working like an ON/OFF controller.
The input measure comes from a thermocouple, is compare to an internal set point (front face potentiometer). The result drive the output relay ("Heat"). The second output relay ("ventilation") is activated when the set point value is above 90°C, allowing the oven electric circuits ventilation.

Input :   Thermocouple type « J »

Measure range	0 …… 250 °C (REGU 050) not linearised
	0 …… 100 °C (REGU 051) not linearised
Breaking sensor detection	yes, with setting OFF the "Heat" relay
Accuracy	± 3 °C (± 1,2 % EM) for 0°C to 50°C ambient temperature

(The accuracy include the linearity, the repeatability, the temperature influence and the inaccuracy of zero and sensitivity adjustment)

Electrical wiring	2 pins screw terminal block 2.5mm²

Output :   Relay with Normally Open contact

Switching capacity	250Vac ,10A
Lifetime at 6A, 85°C	100×10^3 Operations
Dielectric strength	1500 V, 50 Hz, 1 min.
Response time	≈ 100 msec
Hysteresis	≈ 2,5°C « 1% EM »
Electrical wiring	2 x 6.35mm "FASTON" tab terminals

power supply :

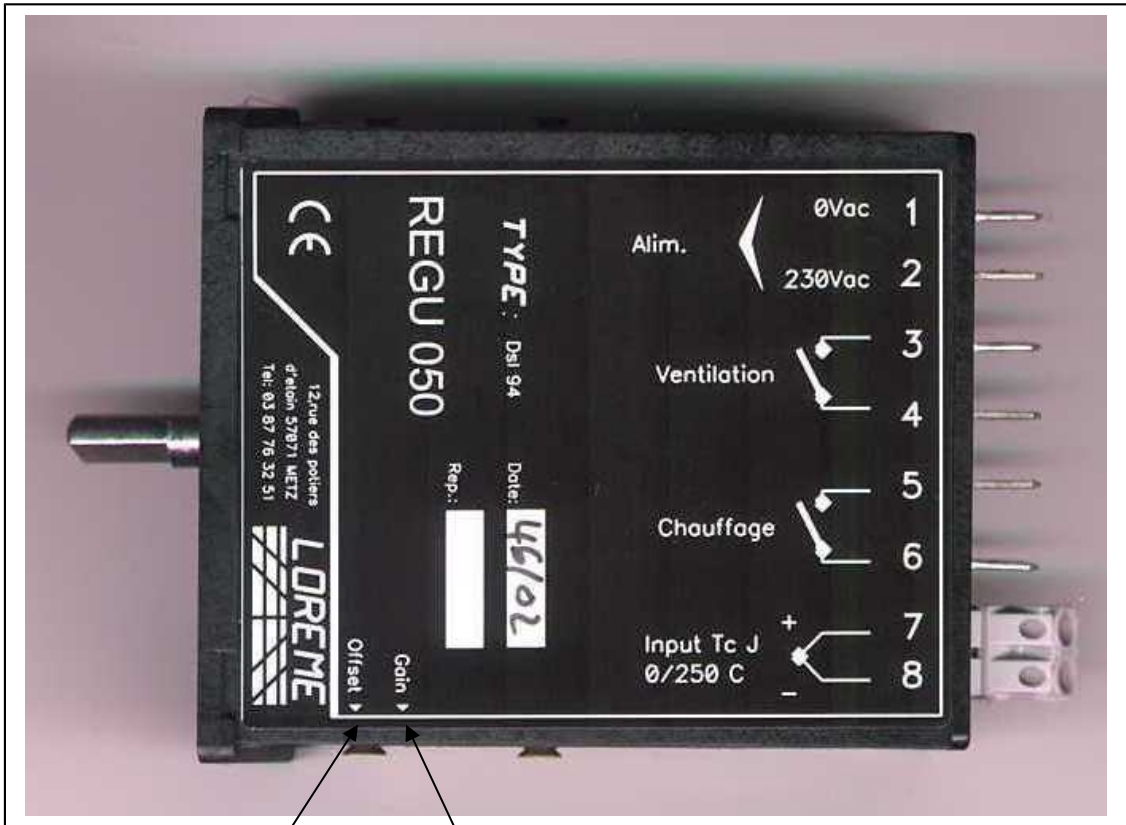|	
Power supply	230Vac (50-60Hz) nominal, 180Vac to 250 Vac max.
Consumption	≈ 1.5VA
Electrical wiring	2 x 6.35mm "FASTON" tab terminals

Environment and features :

Set point setting	¾ turn potentiometer. 6mm flatted shaft
Storage temperature	- 40…80 °C
Operating temperature	- 10…65 °C
Weight	≈ 180gr.
Protection rating	IP20 + conformal coating on PCB

EMC immunity (89/336/CEE) , low voltage directive (73/23/CEE) and CE marking.

Dimensions :

Dimension
depth (out potentiometer shaft) : 97 mm
width: 70 mm , height : 34 mm
Fixing with 2 x M4 screws « not provided »
30 mm centre distance

Top view

Offset adjustment

Gain adjustment