



VULCANIC S.A. - 48, rue Louis Ampère
Zone Industrielle des Chanoux - F 93330 NEUILLY / MARNE (France)
Tél. (33) 01.49.44.49.20 - Fax (33) 01.49.44.49.41



OWNER'S MANUAL

IN PROTECTIVE CASING WITH SWITCH AND INDICATOR

LIQUID DILATION THERMOSTAT

REFERENCES 9014 - 06/08/09

1 - APPLICATION :

Regulation or limitation of temperature for liquids, gases or solids.

2 - DESCRIPTION :

- Liquid dilation thermostat with bulb and capillary made of copper,
- Two reverser contacts,
- Cutting capacity : 16 Amps under 400 V AC, and 0.25 Amps under 250 V DC,
- Maximum voltage for operation : 400 V,
- Differential : 2.5% of full scale,
- Screw-type connection terminal plate,
- Controls on front of casing :
 - 1 On/Off switch,
 - 1 red heating indicator,
 - 1 set-point adjustment button.

REFERENCE	Range (°C)	bulb Ø (mm)	Bulb length (mm)	Capillary length (mm)
9014 - 06	0 - 100	8	95	1500
9014 - 08	50 - 200	5	140	1500
9014 - 09	0 - 300	6	120	1500

3 - PRECAUTIONS FOR USE :

- Handle the capillary with care. It must not be pierced under any circumstances : doing so will irreparably damage the appliance. Always allow a curve radius of at least 5 mm.
- Check that the material of the bulb and capillary is compatible with the product gauged, if they are in direct contact with it.

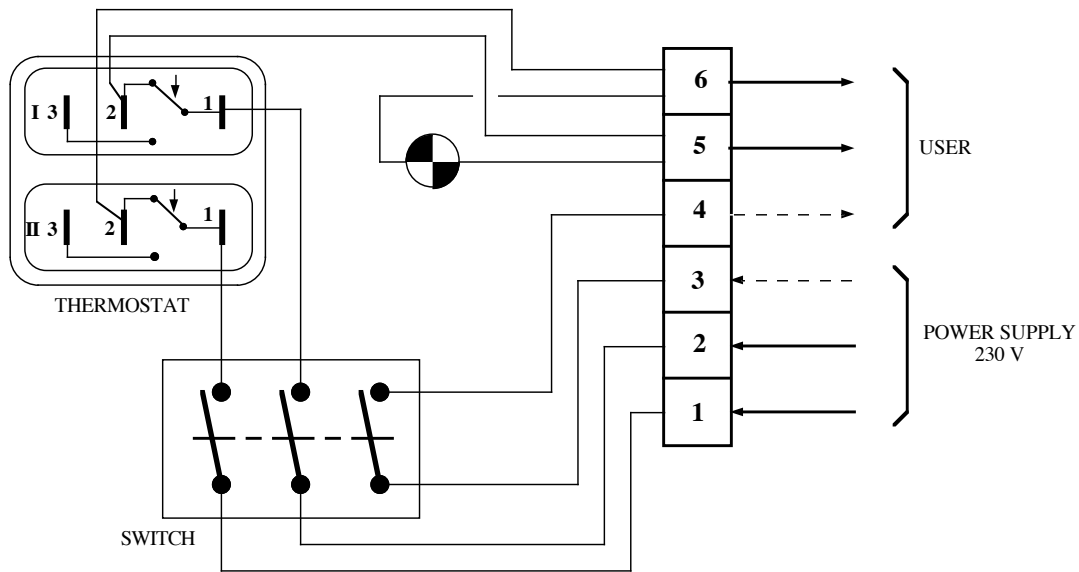
4 - ELECTRICAL CONNECTION AND MOUNTING :

4 - 1 - MOUNTING :

- Secure the casing to a mounting using a securing lug (not supplied).
- Fit the bulb, generally in a probe sheath (case of liquids and gas) or in a cylindrical housing (case of solids), of a diameter slightly larger than that of the bulb, in order to ensure satisfactory heat conduction. You are recommended to ensure this conduction using an appropriate heat grease.

4 - 2 - ELECTRICAL CONNECTION :

Connect the thermostat in accordance with the following schematic :



- Make sure the Faston terminals are correctly connected to the thermostat, and ensure that the terminals are correctly tightened.
- Do not omit to connect the ground terminal to the installation's ground.

5 - START-UP PROCEDURE :

- Using the adjustment knob position, its index on the desired temperature set level opposite the index of the dial.
- After checking that all conditions for satisfactory operation of the installation have been complied with, set the "On/Off" switch to the "On" position.
- Before the nominal temperature is reached, make sure that heating does indeed start-up and stop when you operate the knob of the thermostat. Then reset this knob to the temperature set for use.

NOTE : the information on the dial of the thermostat is not sufficiently precise to be certain of the exactitude of the temperature obtained. Make successive adjustments to the set level until you obtain the desired result, taking measurements with a thermometer.

6 - RUNNING MAINTENANCE :

Perform the following at intervals (at least once per year) :

- Make sure that the Faston terminals (and the screw-type terminals, in the case of cased models) are properly in position and tightened.
- In the case of gauging of a polluting fluid, clean the bulb (and its probe sheath, where applicable) without damaging it, to prevent the possible build-up of a deposit (clogging is likely to render temperature measurement inaccurate, due to obstruction of heat exchange).

7 - GUARANTEE :

The terms of our guarantee comply with the agreements for electrical engineering trades and our general sales conditions.

We will not be liable for damage caused by :

- use at greater than 10% of the nominal voltage for which the equipment was designed,
- exceeding the cut-out capacity of the appliance,
- wear due to inadequate maintenance, impacts, accidents or inexperience of the user,
- non-compliance with the instructions in this documentation, with normal trade practice and with regulations for fire- and explosion-proof appliances,
- effects of corrosion or clogging.