

ELECTROMECHANICAL FROST PROTECTION THERMOSTAT

TAG 797 Eng.



- **Switch:**
– 1 SPDT
- **Sensing element:**
– copper filled with gas
- **Application range:**
– (–10...+12 °C); max. 150 °C
- **Installation of bulb:**
– inside air duct
– immersion with pocket

1. APPLICATION

Designed for the control of temperature in order to protect heating/cooling batteries. It can, however, be used in all situations where it is necessary to ensure that the temperature does not fall below a pre-set value.

2. AVAILABLE MODEL

Code	Description	Range	Max. temp. bulb	Diff. Δt	Length. capillary	Reset
TAG 797	One-stage frost protection thermostat	– 10...+12 °C	150 °C	1 °C	1.8 m	automatic

3. TECHNICAL DATA

Voltage-free switch:: 1 microswitch max. applicable voltage current	in dust-proof housing 250/24 V~ 15 (8) A	Housing: cover base	polycarbonate polyamide
Sensing element: Intervention differential Measurement range	gas-filled copper capillary 1 °C –10...+12 °C	Housing: min. and max. temperatures Max. bulb temperature	–20...+80 °C 150 °C
Humidity (without condensing) Length capillary	95% max. 1.8 m	Installation: air liquids	bulb inside air duct bulb with pocket immersed
		Protection: Weight:	IP 54 400 g

4. INSTALLATION

TAG 797 can be installed in any position but it should be sited so as to facilitate access for the electrical wiring and care must be taken not to damage the capillary.

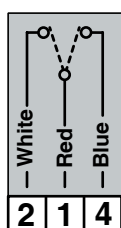
Remove the cover from the housing after loosening the securing screws..

- Carry out the electrical wiring strictly according to the diagram and in observance of the safety regulations in force. Use cables of suitable diameter (**NOT telephone or similar cables**)
- Replace the cover on the housing and tighten up the securing screws.

Warning:

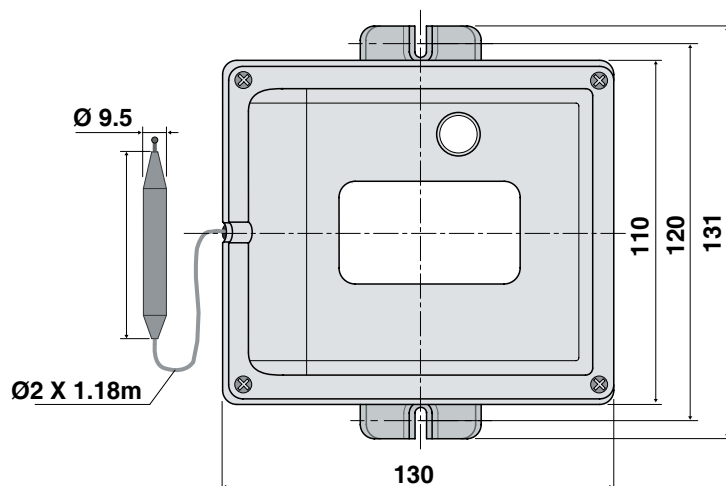
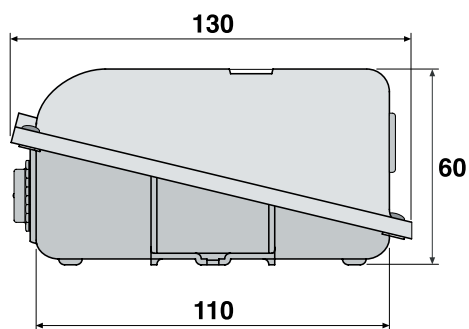
- **Ensure that the ambient temperature in which TAG 797 is installed is never below the value set.**
- **To avoid damaging or breaking the capillary, unroll it in the opposite direction to that in which it is rolled up; in any event, avoid pulling it in the direction of the rotation axis.**
- **To set the desired safety temperature it is necessary to remove the protective plastic bung located on the top of the thermostat and rotate the screw which appears below.**

5. WIRING



Frost protection function:

Use terminal 1 (red) and terminal 2 (white); the corresponding switch opens when the temperature falls. The respective switch closes at the same time; therefore, it can be used as a warning (alarm) signal..

6. OVERALL DIMENSIONS

COSTER TECNOLOGIE ELETTRONICHE S.p.A.
 Sede Legale: 20132 Milano - Via San G.B. De La Salle, 4/a

Head Office & Sales

Via San G.B. De La Salle, 4/a Tel. +39 022722121
 20132 - Milano Fax +39 022593645

Reg. Off. Central & Southern

Via S. Longanesi, 14 Tel. +39 065573330
 00146 - Roma Fax +39 065566517

Orders and Shipping

Via Gen. Treboldi, 190/192 Tel. +39 0364773200
 25048 - Edolo (BS) Tel. +39 0364773202
 Fax +39 0364770016

E-mail: info@coster.info Web: www.coster.info

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