

CONTROL THERMOSTATS

series
TR

Protection	Gas	Zone	1-2	II2G	Ex db IIB+H ₂ T6÷T5 Gb
	Dusts		21-22	II2D	Ex tb IIIC T85°C÷T100°C Db

Degree of Protection	IP65
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Amb. Temp.	Standard	-20°C	+40°C
	Extended	-50°C	+60°C

Entries Threading	NPT ANSI B1.20
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Material	Aluminum light alloy
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Painting	External epoxy RAL 7000
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Standards and Certificates



Directive 2014/34/EU (ATEX)

EN 60079-0 • EN 60079-1
EN 60079-31



INERIS 13 ATEX 0039X



IEC 60079-0 • IEC 60079-1
IEC 60079-31

IECEx INE 13.0053X

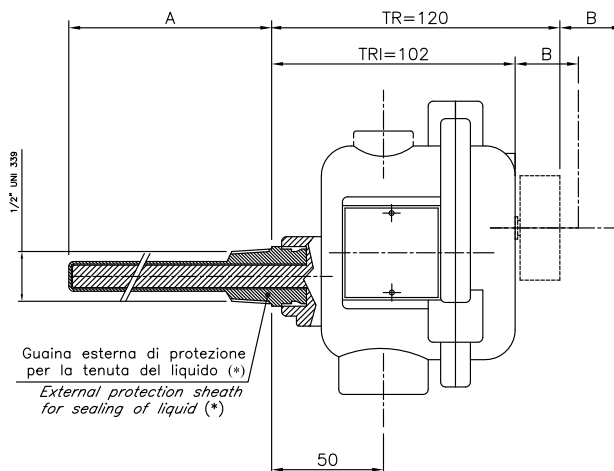
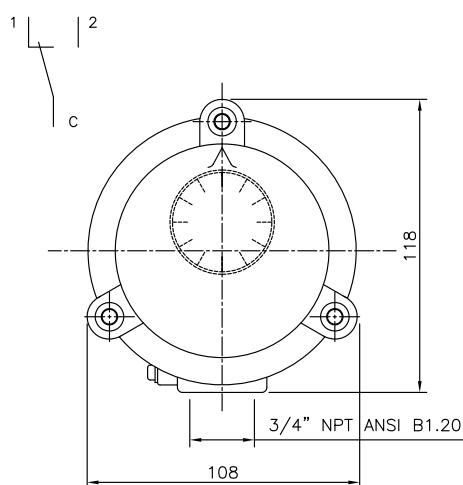


- Thermostat with liquid expansion probe.
- Recommended for the automatic control of liquids temperature and for industrial heating process.
- Its design allows the rapid replacement of the control unit without having to empty the process fluid containers.
- Available either with external or internal temperature adjustment (type TR or TRI respectively).
- The internal adjustment helps to prevent unauthorized manipulations.
- External sheath in AISI 316L Stainless Steel.
- Plate and external screws in Stainless Steel.

Options

- Sheath of different lenght other than standard (L).
- Cable entry: cylindrical M25x1,5 (M).

- Control temperature range other than standard.



NOTES

It is recommended to read the installation and maintenance instructions.

(*) The temperature probe is protected by an internal explosion-proof sheath as well as by an external watertight sheath which induces a greater thermal inertia of the thermostat that raises the temperature reading of the controlled fluid. It's advisable to carry out tests on the adjustments to minimize this effect.

Temperature adjustment on TRI is allowed at open case only. This operation shall not be carried out with the thermostat powered and, in any case, far from hazardous atmosphere.

The Temperature Class T6/T85°C takes into account an Ambient Temperature (A.T.) up to +40 °C, the Temperature class T5/T100°C an extended A.T. up to +60°C

Code \	Temperature Control Range (°C)	Max Bulb Temperature (°C)	Differential ΔT (°C)	A (mm)	B (mm)
TR 40 TRI 40	0°C÷40°C±2°C	50°C	3°C±1°C	95 ÷ 225	111
TR 90 TRI 90	0°C÷90°C±3°C	120°C	4°C±1°C	95 ÷ 225	111
TR 120 TRI 120	0°C÷120°C±3°C	150°C	4°C±1°C	95 ÷ 225	111

B = Minimum clearance in mm to remove the case without removing the sheath.

Exmple: TRI 120N

Order Coding

Type

TR = thermostats with external adjustment
TRI = thermostats with internal adjustment

Temperature control range

40 = 0°C ÷ +40°C
90 = 0°C ÷ +90°C
120 = 0°C ÷ +120°C

Sheath

.. = std.
L = long version

Threading

N = NPT (N)
M = metric (M)

