PROGRAMMABLE CONVERTER

Pt100Ω input

TPI Pt100

- A range of measure interfaces fully programmable on front face with the **micro-console** (universal mini-console clippable on the instruments).

• **Pt100 3 wire input**

• Insulated analog output, programmable in 0-4-20 mA active or passive current, or 0-10 V voltage.

Environment

- Operating temperature: -10°C to +50°C.
- Storage temperature: -20°C to +70°C.
- CE marking

Functions

- Sensor rupture detection.
- Typical response time: 150ms on the analog output.
- Insulation between IN/OUT/supply.
- Self-zero, self-calibration and self-diagnosis.
- Mode driver
  the analog output is piloted by the micro-console.
- Function simulation of the input measure.

Programming

Programming with the micro-console

This µconsole which can be clipped on the front face allows visualising the measure on a 4 digit electroluminescent alphanumerical display, or occasional modifications of the programming via a 4-key keyboard. It also allows teleloading programming files to other products of the ARDETEM range.

Coding

Type **TPI Pt100**

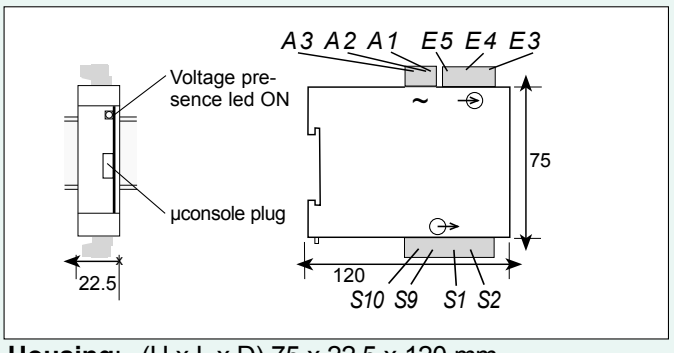
Input:
Pt100: TPI Pt100

Power supply:

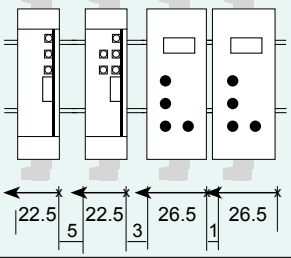
20 to 270 Vac and 20 to 300 Vdc

Power draw : 3 W max. 5 VA max.
Dielectric withstanding: 2 kV-50Hz-1min.

Dimensions



Housing: (H x L x D) 75 x 22.5 x 120 mm
with µconsole : 80 x 26.5 x 130 mm
Self-extinguishing case of black UL 94VO ABS.
Mounting in switchbox: latching on symmetrical DIN rail. *Rack version: consult*



To allow the inserting of the µconsole : mount the instruments vertically (on horizontal DIN rail) leaving a 5 mm space between each.

Features

Input

Type of **INPUT**	Measure range adjustable from:		Intrinsic error	µconsole resolution	Input impedance
Sensor Pt100Ω ♠* 3 wire, Standard IEC 751 (DIN 43760)	°C -200/850	°F -328/1562	<±0.1% of the MR	0.1°C / 0.1°F	Current 250µA

* Line resistance <25Ω

IM Measure range

♠ A 12 µA pulsed current allows the detection of line or sensor rupture

Thermic drift <150ppm /°C

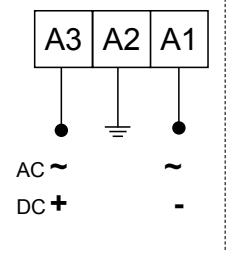
Output

Type of **OUTPUT**		Features
1 Analog	active/passive current	Current: 0-20mA direct or reversed Load impedance ≤ Lr 600Ω
	voltage	Voltage: 0-10V direct or reversed Load impedance ≥ Lr 2000Ω

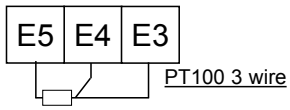
Wiring

Upper connectors

SUPPLY

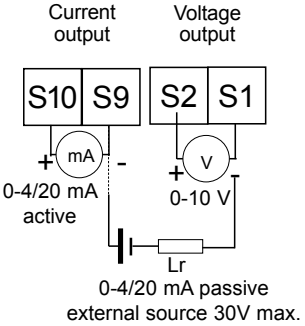


INPUT



Lower connector

ANALOG OUTPUT



⚠* **Only 1 of the 2 analog outputs can be activated at the same time (outputs not independent).**

This appliance is dedicated to industrial applications. It has to be installed in an electrical switchbox, or equivalent.

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