

## Z SERIES

### Z109PT - Pt100 CONVERTER with galvanic separation

Instrument with galvanic separation used for converting a temperature signal from PT100 thermoprobe into a standard V-mA signal.

The instrument is provided with a three-point galvanic separation between input, output and power supply with 1500 Vac insulation and can therefore be positioned at a considerable distance if necessary (a few hundred metres) from the probe without running the risk of obtaining a measurement affected by the differences in potential or the disturbances present in the earthing circuit.

Input from PT100 thermoprobe with 2 or 3 wire connection, with three standard pre-set ranges: 0 - 100 °C, 0 - 200 °C and 0 - 400 °C which can be selected via two dip switches on the front panel. Possibility of calibration in customized ranges by means of internal ZERO and SPAN trimmers.

Output selectable via four dip switches for the following signals:  
current 0 - 20 mA and 4 - 20 mA, with both active and passive connection and maximum load 600 ohm;  
voltage 0 - 5 Vdc, 1 - 5 Vdc, 0 - 10 Vdc and 2 - 10 Vdc.

The "V0" self-extinguishing glass filled nylon case is the width of 1 DIN module and is designed to fit on 35 mm mounting rail (DIN 46277).



#### TECHNICAL DATA

- Power supply : 19 - 40 Vdc / 19 - 28 Vac
- Power consumption : max 2,5 W
- Galvanic separation supply // input // output : 1500 Vca
- Precision : greater than +/- 0,2%
- Linearity : greater than +/- 0,2%
- Stability : 200 ppM / °C
- Cable resistance interference : +/- 0,05% / ohm (3 wires - max. 10 ohm)
- Output impedance:
  - 0 - 600 ohm current loop impedance
  - load for voltage output > 2,5 Kohm
- Burn-out : positive, output > 20 mA
- Operating temp. : 0 / + 50 °C (see also [Installation information](#))
- Humidity : 30 / 90% a +40 °C (non-condensing)
- Dimensions (b x h x d) : 17,5 x 100 x 112 mm
- Weight : approx. 200 g.
- [Other general features](#)

#### ORDERING CODES

Code	Power supply
<b>Z109PT</b>	24 Vdc-ac

*For more info please refer to the operating manual*