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ANALOGUE SIGNALS PROCESSORS

S109PT - Pt100 / V - I CONVERTER with galvanic separation

Instrument with galvanic separation for converting a temperature signal from PT100 thermoprobes into a standardized V – mA signal.

The converter is provided with galvanic separation between the input and output and can therefore be positioned at a considerable distance if necessary (a few hundred metres) from the sensor without running the risk of obtaining a measurement affected by the differences in potential or the disturbances present in the earthing circuit.

Input for PT100 thermoprobes with 2 or 3 wires 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 on customized scales 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 800 ohm;
- voltage 0 5 Vdc, 1 5 Vdc, 0 10 Vdc and 2 10 Vdc.

A signaling LED on the front panel indicate power on.

The self-extinguishing Noryl case is the width of 4 DIN modules and is designed to fit on a 35 mm mounting rail (DIN 46277).

TECHNICAL DATA

- Power supply: 115 / 230 Vac +/- 10% 50 / 60 Hz
- Power consumption: 1,5 VA
- Galvanic separation supply // input // output 3500 Vac
- Input: for Pt100 2/3 wires thermoprobes
- Input: 3 ranges pre-calibrated 0-100, 0-200 e 0-400 °C
- Adjustable ZERO e SPAN for personal calibrations
- Current output : selectable via DIP-switches between 0-20 and 4-20 mA
- Voltage output : selectable via DIP-switches between 0-5, 1-5, 0-10 e 2-10 Vdc
- Output impedance:
 - 0 800 ohm current loop impedance
 - load for voltage output > 1 Kohm
- Precision: 0,2%
- Stability: +/- 0,01% / °C
- Linearity: +/- 0,2%
- Cable resistance interference: +/- 0,05%/ohm (3 wires, max 10 ohm)
- Burn-out : positive, output > 20 mA
- Operating temp.: 10 / + 60 °C
- Humidity: 90 % a 40 °C (non-condensing)
- Dimensions (b x h x d): 70 x 95 x 72 mm

Isolation: 3.500 Vac powers upply // signal circuits



• Weight: approx. 400 g.

ORDERING CODES

Code	Power supply
S109PT-1-ST	115 - 230 Vac
Z109PT	24 Vdc-ac

For more info please refer to the operating manual

Characteristics can be subject to change without notice