

ANALOGUE SIGNALS PROCESSORS

S109REG - V - I / V - I CONVERTER with galvanic separation

Module for conversion, with high linearity and precision, of measurement signals with three-point galvanic separation.

The instrument powers transmitters on both the input and output loops.

The insulation voltage between input and output is 4500 Vac.

Used for the conversion of measurement signals when it is necessary to interface instruments with different standards of signal and galvanically separate the input circuit from the output circuit in order to prevent interferences.



- **INPUT:** programmable by means of dip switches on front panel for 0 - 20 mA and 4 - 20 mA current input (with both active and passive connection) or for 0 - 5 Vdc, 1 - 5 Vdc, 0 - 10 Vdc and 2 - 10 Vdc voltage input. Also permits adjustment of signal SPAN and ZERO to calibrate the instrument on any signal (e.g. 8-14mA).
- **OUTPUT:** programmable by means of dip switches on front panel for 0 - 20 mA and 4 - 20 mA current output (with both active and passive connection) or for 0 - 5 Vdc, 1 - 5 Vdc, 0 - 10 Vdc and 2 - 10Vdc voltage output.

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 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 3.500 Vac ●
- Input range :
- current : ZERO between +/- 14 mA and SPAN from 2 to 20 mA
 - voltage : ZERO between +/- 7 Vdc and SPAN from 1 to 10 Vdc
- Input impedance :
 - 100 ohm for current input
 - 1 Mohm for voltage input
 - 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 and 2-10 Vdc
 - Output impedance:
 - 0 - 800 ohm current loop impedance
 - load for voltage output > 1 Kohm
 - Stability : +/- 0,01% / °C
 - Linearity : +/- 0,25%
 - Operating temp. : - 10 / + 60 °C

- Humidity : 90 % a 40 °C (non-condensing)
- Dimensions (b x h x d) : 70 x 95 x 72 mm

ORDERING CODES

Code	Power supply
S109REG-1-ST	115 - 230 Vac
S109REG-1-X7	115 - 230 Vac
Z109REG	24 Vdc-ac

For more info please refer to the operating manual

Characteristics can be subject to change without notice