

ISOLATOR CONVERTER

Power Supply Vac/dc

Highlights

- Selectable input RTD type (Pt100, Pt500, Pt1000, Ni100) 2/3/4 wires
- Selectable output mA, V
- Sampling frequency from 240 sps (@11bit+sign resolution) to 15 sps (@15 bit
 - +sign resolution)
- Isolation 1.500 Vac at 3-ways power supply /input / output
- Setting via DIP switches, software or APP
- Micro USB connector (front side)
- Operating temperature -20...+60°C
- UL Certification

Z109PT2-1 is a temperature converter for 2/3/4 wire RTD sensor (PT100, PT1000, PT500, Ni100) and provides a mA/V standard output signal.

A 3-way galvanic isolation among power supply // input // output circuits assures the integrity of your signals.

The device can also power an external sensor by 2-wire technique with 20 Vdc stabilized / 20 mA max, short circuit protected.

Z109PT2-1 offers high accuracy class (0,1%), fast response time (up to 35 ms), wide operating temperature range and low power consumption. Besides DIP-switch settings, the module has a Micro USB connector on the front side and can be configured by PC software (EASY SETUP) or dedicated app for Android devices setting: start / end scale, additional input types, square root extraction, filter, burnout etc.

Z109PT2-1 is certified in accordance with UL standard.















Z109PT2-1



RTD TO DC CURRENT / VOLTAGE **ISOLATOR CONVERTER**



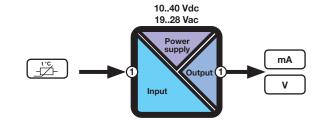




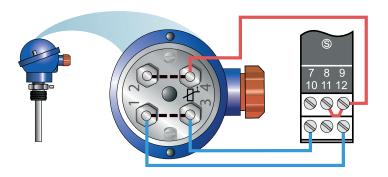
TECHNICAL DATA GENERAL DATA Power Supply 10..40 Vdc; 19..28 Vac (50..60 Hz) Power transducer 20 V stabilized, 20 mA max, 2 wire-technique Power consumption 1,6 W (@24V) 2,5 W (max) Isolation 1.500 Vac 3-ways **Protection Degree** IP20 LED status indicators Power on Off scale Setting error From 240 sps @11bit+sign resolution to 15 sps Sampling frequency @15bit+sign resolution Response time 35 ms @11bit resolution, 140 ms @16bit resolution Interface Micro USB 0,1% (RTD) - 0,3% (voltage output) Accuracy class Thermal drift 0.01%/K DIP switch Settings PC Software (EASY SETUP) Mobile app (EASY SETUP app) Operating temperature -20..+60°C Dimension 100 x 112 x 17,5 mm (wxhxd) Connections Removable 3-way screw terminals, 5,08 mm pitch, cable section 2,5 mm2 Case PA6, black color Mounting 35 mm DIN rail (IEC/EN 60175) 200 g Weight CE. UL-UR CSA **Approvals** Norms EN 61000-6-4, EN 61000-6-2, EN 61010-1 **INPUT DATA** Channels 1 Type RTD PT100, PT500, PT1000, Ni100 2, 3 or 4 wires measurement, energising current 1 mA,resolution 0.1 °C **OUTPUT DATA** Channels 1 Type $0..5\,/\,0..10\,/\,1..5\,/\,2..10$ V, min load resistance 2 $k\Omega$ Resolution: 2.5 µA/ 1.25mV. CURRENT: 0..20 / 4..20 mA, max load resistance 600 Ω Resolution: 2.5 µA/ 1.25mV.

ORDER CODES	
Code	Description
Z109PT2-1	RTD to DC current / voltage isolator converter, 940 Vdc/1928 Vac
CU-A-MICROB	USB-A Micro USB-B 5 P plug cable
CU-A-MICRO-OTG	Micro USB OTG to USB Type A (female) adapter cable
EASY SETUP	Plug&Play software suite for SENECA programmable instruments
EASY SETUP APP	App ioS / Android EASY SETUP suite
Z-POWER-115-15VA	DIN rail 19 Vac transformer, 115 / 15 VA with thermofuse
Z-POWER-230-15VA	DIN rail 19 Vac transformer, 230 / 15 VA with thermofuse
Z-POWER-230-25VA	DIN rail 19 Vac transformer, 230 / 25 VA with thermofuse
Z-SUPPLY	Single-phase switching power supply 24V @ 1.5A

SIGNAL / ISOLATION DIAGRAM



APPLICATION EXAMPLE



SETTING BY USB INTERFACE

