

Z109REG-BP

PROGRAMMABLE UNIVERSAL CONVERTER WITH BIPOLAR OUTPUT



Isolation 1.500 Vac @ 3 way

2-wire Power for transducers (max 20 mA)

Universal Input mA, mV, V, Ω , RTD, TC

Bipolar Output mA / V

Frontal Micro USB port for programming via software

Dimension 100x 112 x 18 mm (w x h x d)

Mounting on DIN 46277 guide

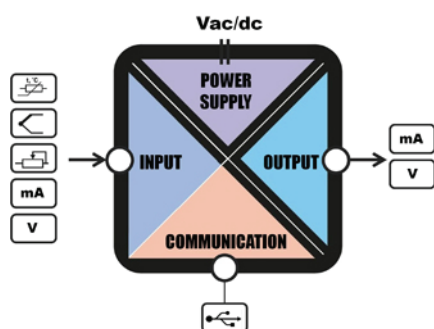
PBT Enclosure, black



Made in Italy

Z109REG-BP

PROGRAMMABLE UNIVERSAL CONVERTER WITH BIPOLAR OUTPUT



Z109REG-BP is a converter with universal input in voltage (mV), current (mA), thermocouples (TC), thermoresistance (RTD), potentiometer, rheostat, NTC.

The module allows the measurement and retransmission on bipolar isolated analogue output, in voltage or current. Exploiting the mini frontal USB port, Z109REG-BP can be programmed via PC with values of start and end-scale, kind of different input, root extraction, filter, burn-out etc.

TECHNICAL FEATURES

GENERAL DATA

Power supply	10..40 Vdc; 19..28 Vac
Max Consumption	2 W
Power for transducers	2-wire active input (20 Vdc)
Isolation	1.500 Vac @ 3 points
Input protection	Against Pulse Overvoltage 400 W/ms
Response time	From 35 ms (11 bit) and 140 ms (16 bit)
Status indicators	Power supply, Error, Alarm
Interfaces	Micro Frontal USB
Programming via PC	Via software EASY SETUP: input type, digital filter, root extraction, burn-out, start and end-scale of analogic output, value of the analog output in case of error, band-rejection filter, sampling time/ resolution, type of measurement for thermoresistance
Programming via DIP-switch	Input & output type, measurement scale
Measurement errors	Accuracy class 0,1% Thermal drift 0,01%/K
Memory	EEPROM; retention time: 40 years
Protection degree	IP20
Operating temp.	-20..+65°C
Weight	200 g
Dimension	100 x 112 x 17,5 mm
Enclosure	PBT, black
Connections	Screw terminals 2,5 mm2 Frontal Micro Usb
Mounting	DIN 35 mm guide

INPUT TYPE

Channels numbers	1 analog (active / passive)
Type	Thermocouples J,K,R,S,T,B,N,E, input impedance > 5 MW Thermoresistance PT100, PT500, PT1000, NI 100, KTY81, NTC, KTY84-130, KTY84-150 Potentiometer from 500 Ω to 100 kΩ Rheostat from 500 Ω to 25 kΩ Bipolar Voltage from 75 mV to 20 V Bipolar Current up to 20 mA

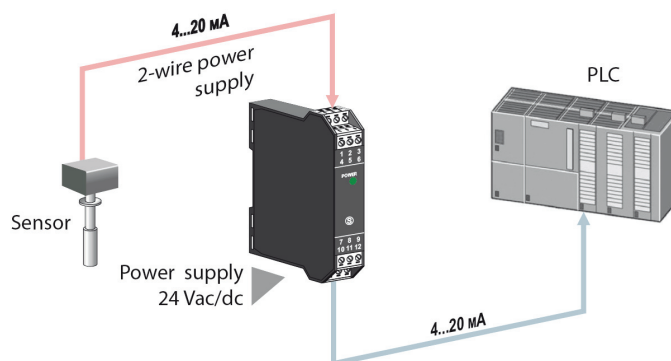
OUTPUT TYPE

Channels numbers	1 analog
Type	Voltage from -10 to +10 Vdc, min load 1.000 Ω Current from -20 to + 20 mA, max load 500 Ω

STANDARD

CE Norms	CE
Standard	EN 61010-1 EN 61000-6-2 EN 61000-6-4

APPLICATIVE EXAMPLE



ORDER CODES

Code	Description
Z109REG-BP	Programmable Universal Converter with bipolar output
Z-SUPPLY	Single-phase switching power supply 24V @ 1,5 A
KIT-USB	Programming Kit, mini CD with EASY SETUP inclusive, manuals, USB driver for Windows and mini USB cable.
EASY SETUP	Configuration Software freely downloadable from www.seneca.it



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