

Z-LINE CONVERTERS AND INTERFACES

Z109PT2

RTD to DC Current / Voltage isolator converter



Input

RTD (PT100, PT500, PT1000, Ni100) with zero and span configurable by dip-switches

Output

N.1 channel current 0..20, 4..20 mA; voltage 0..5, 1..5, 0..10, 2..10 Vdc

Isolation

1500 Vac @ 3-way

Connection

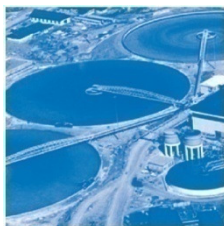
2,3,4 sensor input

Mounting

Din rail

Power supply

9..40 Vdc, 19..28 Vac



TR AUTOMATYKA Sp. z o.o.

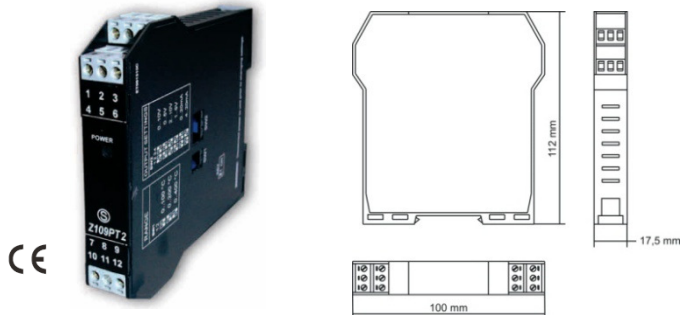
ul. Lechicka 14
02-156 Warszawa
email: biuro@trautomatyka.pl

tel.: +48 22 886 10 16
fax: +48 22 846 50 37

Z109PT2

RTD to DC Current / Voltage isolator converter

TECHNICAL DATA



ORDER CODE

Z109PT2 RTD to DC current/voltage isolator converter

GENERAL FEATURES

Power supply	9÷40Vdc, 19÷28 Vac
Channels	N.1
Accuracy	0,1%
Status indicators	- Power - Setting error - Off scale
Galvanic Isolation	Power supply // input // output at 1500 Vac, digital
Hot swapping	Yes
Power consumption	Max 2,5 W
Sampling frequency	35 ms
Protections	Surges: 400W/ms. Loop supply short-circuit protected
Protection for inputs	Except current: 60V continuous; current 200mA continuous
Humidity	30..90% a +40°C (non condensing)

Design	Terminal housing for mounting on 35 mm DIN 46277
Data memory	EEPROM for all configuration data; storage time: 10 years.
DIP Switches	- Inputs signal setup - Output signal setup
Enclosure	"V0" self-extinguishing glass filled nylon case
Dimensions	17,5 x 100 x 112 mm (w x h x d)
Weight	140 g
Operating temperature	-10..+60 °C
Connections	Plug-in screw clamp terminal blocks, wires up to 2.5 mm ²
IP Protection	IP 20
Standards	EN50081-2 EN50082-2 EN61010-1
Approvals	CE

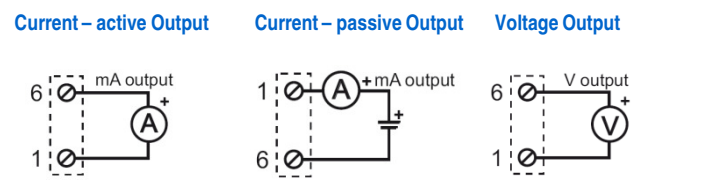
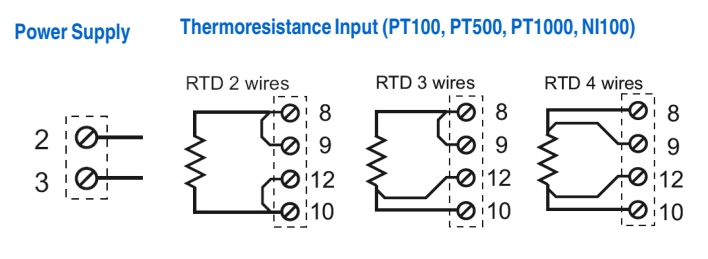
INPUT

Type **Thermoresistance (RTD)** input PT100, PT500, PT1000, NI100; 2, 3 or 4 wires measurement, energising current 0.56 mA; resolution 0.1 °C, automatic detection of cable interruption or RTD

OUTPUT

Type **Current:** 0.20 mA, 4..20 mA, 20..0 mA e 20..4 mA
Higher load resistance: 600 Ohm
Voltage: 0.5 Vdc, 1..5 Vdc, 0..10 Vdc and 10..0 Vdc
Lower load resistance: 2,5 KOhm

CONNECTIONS



DIP SWITCHES CONFIGURATION

SW2	NI100 (RTD)		PT100 (RTD)		PT500 (RTD)		PT1000 (RTD)	
	START	END	START	END	START	END	START	END
1	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
2	-50 °C	20 °C	-200°C	50°C	-200 °C	0 °C	-200 °C	0 °C
3	-30 °C	40 °C	-100°C	100°C	-100 °C	50 °C	-100 °C	50 °C
4	-20 °C	50 °C	-50°C	200°C	-50 °C	100 °C	-50 °C	100 °C
5	0 °C	80 °C	0°C	300°C	0 °C	150 °C	0 °C	150 °C
6	20 °C	100°C	50°C	400°C	50 °C	200 °C	50 °C	200 °C
7	30 °C	150 °C	100°C	500°C	100 °C	300 °C	100 °C	300 °C
8	50 °C	200 °C	200°C	600°C	150 °C	400 °C	200 °C	400 °C



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