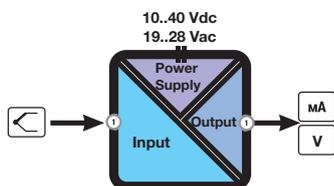


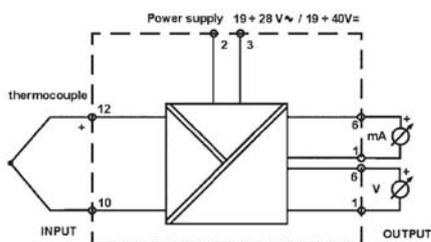
Z109TC2

THERMOCOUPLE TO DC CURRENT / VOLTAGE ISOLATOR / CONVERTER



Z109TC2 is a converter for Thermocouples TCs (J, K, E, N, S, R, B, T) and provides a mA/V standard output signal. It's completely configurable through dip switches. A 3-way galvanic isolation among Power supply // input // output circuits assures the integrity of your datas.

FUNCTIONAL SCHEME

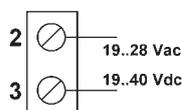


TECHNICAL SPECIFICATIONS

GENERAL DATA	
Power supply	10..40 Vdc / 19..28 Vac / 50-60 Hz
Power consumption	2 W
Isolation	1.500 Vac (3 way)
Power transducers	Yes
Status Indicators	Power supply, error, data transm., data reception, input status
Accuracy	0,1%
Response time	35 ms con risoluzione ad 11bit 140 ms con risoluzione 16bit
Setting	Dip- switches
Mounting	35 mm DIN rail guide
Protection Degree	IP20
Operating Temperature	-20..+60 °C
Dimension (W x H x D)	17.5 x 100 x 112 mm
INPUT	
Channel numbers	1
Thermocouple	Type J, K, R, S, T, E, B, N Resolution 5 µV
OUTPUT	
Channel numbers	1
Voltage	4 scales: 0..1, 0..5, 0..10, 2..10 V Min load resistance: 2.000 Ω
Current	2 scales: 0/4..20 mA (active/passive) Max load resistance: 600 Ω
STANDARD	
Approval	CE
Norms	EN61000-6-4 (emissione elettromagnetica ambiente industriale) EN61000-6-2 (emissione elettromagnetica ambiente industriale) EN61010-1 (sicurezza)

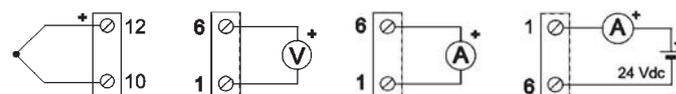
CONNECTIONS

Power supply



Power voltage must be between 19 e 40 Vdc (either polarity), 19 e 28 Vac. In order to avoid critical damages please do not exceed the maximum. You need to protect the power source from any failure of the module using an appropriately sized fuse.

INPUT thermocouple **Retransmitted OUTPUT (V)** **Retransmitted OUTPUT (mA-active)** **Retransmitted OUTPUT (mA-passive)**



ACCESSORIES AND SOFTWARE



PM001601
Programming cable



Easy Setup
Programming software

SIMILAR PRODUCTS



K121

Loop powered isolator / universal converter



K109TC

TC to DC current/voltage isolator / converter (with trip alarm)



T121

Isolated loop powered temp. transmitter



Z109REG2

Universal converter to DC current/voltage isolator converter with alarm output

Order Codes

Codes	Description
Model Z109TC2	Thermocouple to dc current/voltage isolator/converter
Accessories PM001601	Programming cable