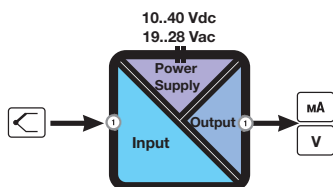


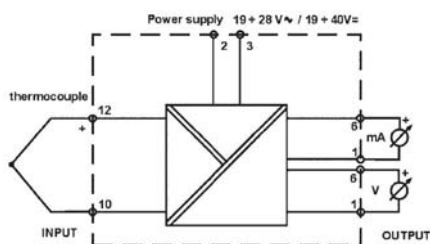
## Z109TC2

### 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

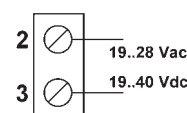


#### TECHNICAL SPECIFICATIONS

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)

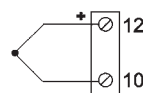
#### CONNECTIONS

##### Power supply

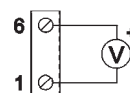


Power voltage must be between 19 e 40 Vdc (either polarity), 19 e 28 Vac. In order to avoid critical damages please do not exceed the maximum. You need to protect the power source from any failure of the module using an appropriately sized fuse.

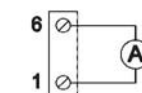
##### INPUT thermocouple



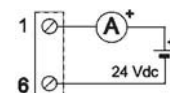
##### Retransmitted OUTPUT (V)



##### 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	<b>Z109TC2</b> Thermocouple to dc current/voltage isolator/converter
Accessories	PM001601 Programming cable