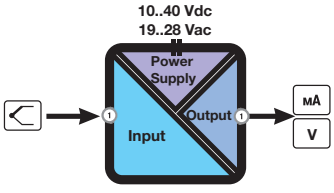


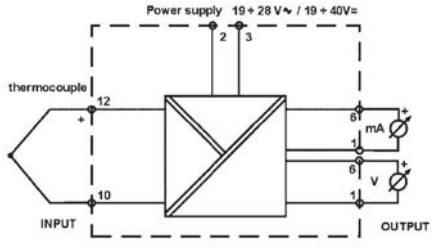
Z109TC2

THERMOCOUPLE TO DC CURRENT / VOLTAGE ISOLATOR / CONVERTER



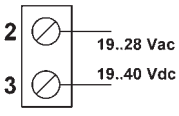
Z109TC2 is a converter for Thermocouples TCs (J, K, E, N, S, R, B, T) and provides a mA/V standard output signal. It's completely configurable through dip switches. A 3-way galvanic isolation among Power supply // input // output circuits assures the integrity of your datas.

FUNCTIONAL SCHEME



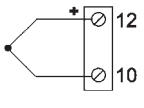
CONNECTIONS

Power supply

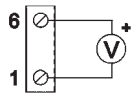


Power voltage must be between 19 e 40 Vdc (either polarity), 19 e 28 Vac. In order to avoid critical damages please do not exceed the maximum. You need to protect the power source from any failure of the module using an appropriately sized fuse.

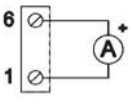
INPUT thermocouple



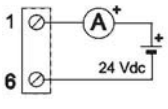
Retransmitted OUTPUT (V)



Retransmitted OUTPUT (mA-active)



Retransmitted OUTPUT (mA-passive)



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)

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 powerd 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

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