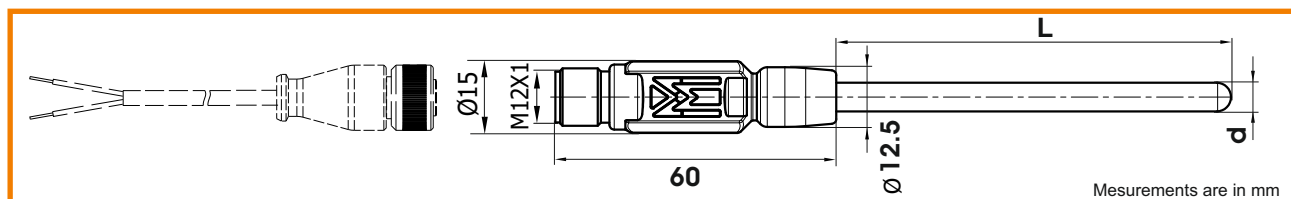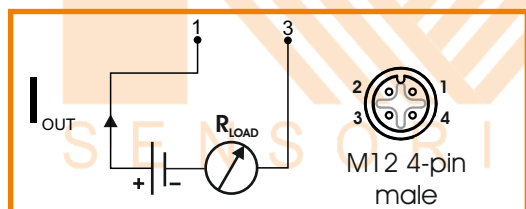# EvominiX I

PC-configurable temperature transmitter with mineral insulated probe (MgO). It comes in a overmolded IP67 casing with M12 output connection. This device can be a reliable alternative to common assemblies with connection head.

PROGRAMMABLE 4-20 mA TEMPERATURE TRANSMITTER WITH MINERAL INSULATED PROBE

ISO 9001:2000

EvominiX

Output connection

M12 4-pin male

Mesurements are in mm

TECHNICAL SPECIFICATIONS

Environmental conditions:
Operating temperature: -40°C to +85°C
Relative humidity: 0 to 100 %
Protection class: IP65 and IP67 according to EN 60529
EMC: according to EN 61326

Mechanical specifications:
Body: thermoplastic
Probe: compact mineral insulation AISI 316
Stem length: 150mm (other lengths available on request)
Stem diameter: Ø3mm and Ø6mm
Weight: 14g (L=100mm and Ø3mm); 28g (L=100mm and Ø6mm)
Stem min. bending ratio: 3-times outer diameter (except 30mm of sensing tip)
Output connection: M12x1 male according to EN 61984 (VDE 0627)

Electrical specifications:
Power supply (Vdc): 5V to 32V (polarity protected)
Isolation: Unisolated

Input:
Sensor: 4-wire Pt100 class A up to 300°C according to IEC751
Temperature range: from -50°C to +500°C

Output:
Signal: 4-20 mA or 20-4 mA
Response time(63%): <3.5s for diameter 3mm, <13s for diameter 6mm (according to IEC 751)
Permissible load: 860Ω@24Vdc[RLoad=(Vsupply-5)/0.022]

Sensor error indication (break and short circuit):
Selectable according to NAMUR NE43: upscale (>21mA) or downscale (<3.6mA) action

Accuracy and stability:
Accuracy: Max. of ±0.1°C or ±0.1% of span
Temperature drift: Max. of ±0.3°C per 25°C or ±0.3% of span per 25°C
Long-term stability: ±0.1% of span per year
Supply voltage effect: negligible
Linear error: negligible

Range configurations:
PC-Programmable (Win OS required) by using EVOMINI SET configuration kit
Measuring range limits: -50°C to +500°C
Minimum span: 20°C
Sensor error compensation: ±5°C (2 points compensation)
Input filter: configurable from 0.4s to 9.4s

Factory settings:
4-20 mA output, 0°C to +150°C meas. range,
sensor break >21mA, sensor short-circuit <3.6mA

Options:
1 or 2 points calibration (on request)
Extension cable in TPE with overmolded M12 connector (IP67)
Available cable lenghts: (3, 8 or 12)m (others on request)

CODE TO ORDER:

EvoXI#		X					XX

M	4÷20 mA		
I	20÷4 mA		
Output			

000	0	150	+150
min. range		**Max. range**	

X	Out 21 mA
B	Out 3.6 mA
Probe break	

X	Out 3.6 mA
A	Out 21mA
S/C probe	

Ø 3	-3--
Ø 6	-6--
Diameter d= (mm)	

100	0100
150	0150
250	0250
350	0350
500	0500
750	0750
1000	1000

Length L= (mm)

EXTENSION CABLE:

PRV #		AG		XXX

3M	3000
8M	8000
12M	M120

C	M12 Straight
D	M12 Elbow

NOTE: Other executions requests are to be discussed with the purchasing department.
Italcoppie reserves to itself the right for modifications of this tehnical data without prior notice.

italcoppie SENSORI