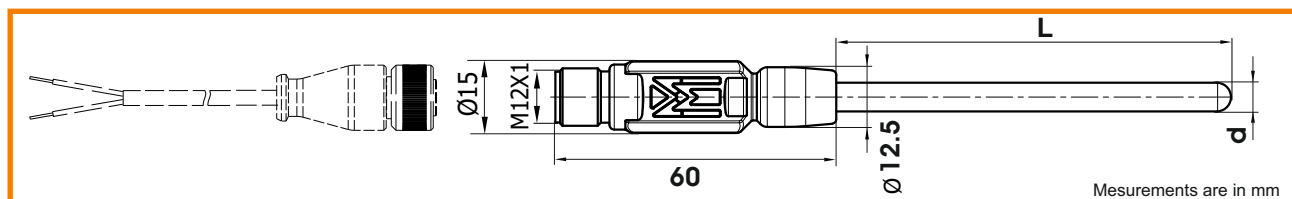
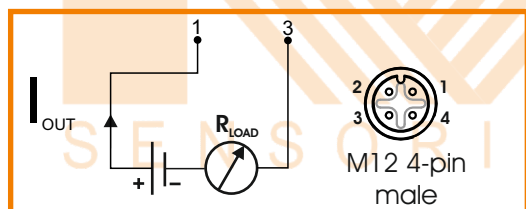


PC-configurable temperature transmitter with mineral insulated probe (MgO). It comes in a overmolded IP67 casing with M12 output connection. This device can be a reliable alternative to common assemblies with connection head.

EvominiX I

PROGRAMMABLE 4-20 mA TEMPERATURE TRANSMITTER WITH MINERAL INSULATED PROBE

Output connection



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[R_{Load}=(V_{supply}-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 (deviation from 20°C): 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 lengths: (3, 8 or 12)m (others on request)

CODE TO ORDER:

EvoXI#		X							XX
M 4÷20 mA I 20÷4 mA	000 0	150 +150	X Out 21 mA B Out 3.6 mA	X Out 3.6 mA A Out 21 mA	Ø 3 -3-- Ø 6 -6--	100 0100 150 0150 250 0250 350 0350 500 0500 750 0750 1000 1000			
Output	min. range Ex. negative range M20 -20	Max. range	Probe break	S/C probe	Diameter d= (mm)				
EXTENSION CABLE:						Length L= (mm)			

EXTENSION CABLE:

PRV #		AG		XXX
3M 3000 8M 8000 12M 12120		C M12 Straight D M12 Elbow		