

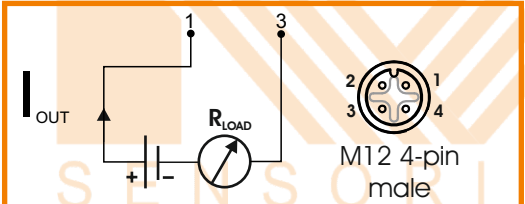
EvominiX CM

PROGRAMMABLE 4-20 mA TEMPERATURE TRANSMITTER WITH METALLIC BODY

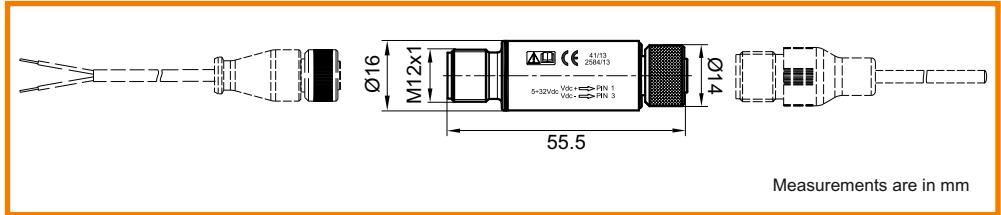
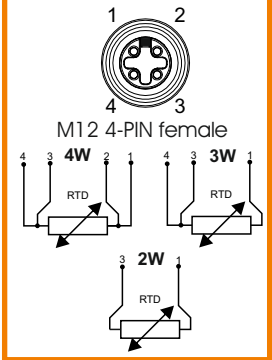
ISO 9001:2000

PC-configurable compact transmitter for Pt100 and Pt1000 probes. Its integrated connections allow to mount the transmitter directly on the sensor. It comes in a metallic IP67 body with M12 connections in both ends. It is compatible with Italcoppie TRM and TRC probe series.

Output connection



Input sensor connection



Measurements 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: stainless steel AISI 316L
 Input connection: M12x1 female according to EN 61984 (VDE 0627)
 Output connection: M12x1 male according to EN 61984 (VDE 0627)
 Weight: 22g

Electrical specifications:

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

Input:

Sensor: 2-, 3- or 4-wire Pt100 or Pt1000 (α=0.00385)
 Temperature range: from -200°C to +850°C
 Sensor current: about 100µA
 Max. resistance/wire: 20Ω/wire (3- or 4-wire) or 40Ω(2-wire)

Output:

Signal: 4-20 mA or 20-4 mA
 Response time (63%): < 300ms
 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: -200°C to +850°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-wire Pt100 input, 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)

ORDER CODE:

EvoXCM#				X						XX
	M Pt1000 R Pt100	2 2 wire 3 3 wire X 4 wire	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			
	Input	Connection	Output	min. range	Max. range	Probe break	Probe S/C			

EXTENSION CABLES:

PRV #		AG	XXX
3M	3000	C	M12 Straight
8M	8000	D	M12 Elbow
12M	M120		