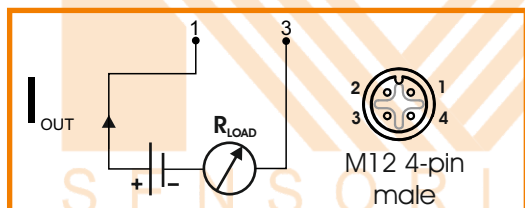
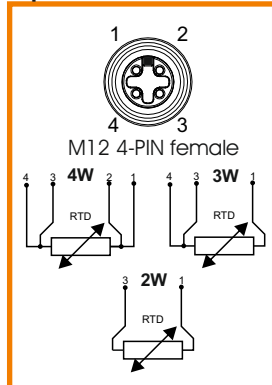


PC-configurable compact transmitter for Pt100 and Pt1000 probes. Its integrated connections allow to mount the transmitter directly on the sensor. It comes in a overmolded IP67 casing with M12 connections in both ends. It is compatible with Italcoppie TRM and TRC probe series.

Output connection



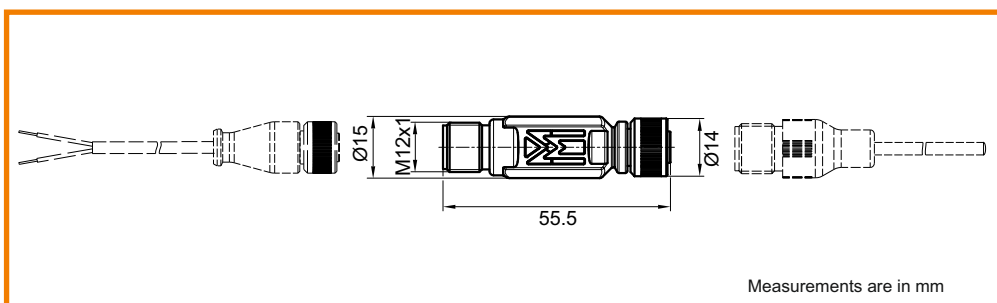
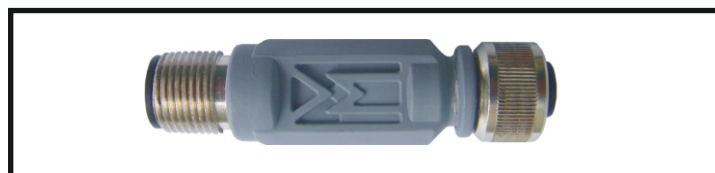
Input sensor connection



EvominiX C

PROGRAMMABLE 4-20 mA TEMPERATURE TRANSMITTER

ISO 9001:2000



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
Input connection: M12x1 female according to EN 61984 (VDE 0627)
Output connection: M12x1 male according to EN 61984 (VDE 0627)
Weight: 12g

Electrical specifications:

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

Input:

Sensor: 2-, 3- or 4-wire Pt100 or Pt1000 ($\alpha=0.00385$)
Temperature range: from -200°C to +850°C
Sensor current: about 100uA
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 [$R_{load} = (V_{supply}-5)/0.022$]

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 $\pm 0.1^\circ\text{C}$ or $\pm 0.1\%$ of span
Temperature drift (deviation from 20°C): Max. of $\pm 0.3^\circ\text{C}$ per 25°C or $\pm 0.3\%$ of span per 25°C
Long-term stability: $\pm 0.1\%$ 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: $\pm 5^\circ\text{C}$ (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:

EvoXC#				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 min. range	150 +150 Max. range	X Out 21 mA B Out 3.6 mA	X Out 3.6 mA A Out 21 mA	
	Input	Connection	Output		Ex. negative range		Probe break	Probe S/C	
					M20 -20				
EXTENSION CABLE:									
PRV #	AG	XXX							
3M 3000 8M 8000 12M M120		C M12 Straight D M12 Elbow							

EVMXC UK - REV 3
APRIL 2020



NOTE: Other executions requests are to be discussed with the purchasing department.

Italcoppie reserves to itself the right for modifications of this technical data without prior notice.

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Stockholm, Sweden

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Via A. Tonani 10 - 26030 MALAGNINO (CR) ITALY
Tel 0372.441238 - Fax 0372.441238 - www.italcoppie.it



EvominiX

EVOMINI SET

CONFIGURATION KIT FOR EVOMINI+ / CRYO / X PRODUCTS

ISO 9001:2000

With a PC, it allows to configure all the functions parameters through the USB interface.



TECHNICAL DATA

Interface:

PC connection: through the USB port with connection cable included in the kit

EVOMINI+ / +SCAT, EVOMINI CRYO, EVOMINI X / XSCAT connection: through extensions cables included in the kit

Note: The transmitter is powered from the USB interface

Programming software:

Evomini+Configurator for Windows® 7, Windows® 8, Windows® 10

Configurable parameters:

Temperature range, measurement unit (°C/°F/°K), sensor break monitoring (Up scale / Down scale), identifying name of the transmitter (16 alphanumeric characters), input sensor error compensation over one or two points. Only for EvominiX series: sensor setup and configuration, temperature monitor and mA output simulation (only with the optional cable CAVV141).

Supported languages:

Italian, English, French, German, Swedish

Packaging:

Included in the kit: 1x interface USB, 1x connection cable between USB port and interface, 1x connection cable between interface and EVOMINI+ / CRYO / X transmitter serie, 1x connection cable between interface and EVOMINI+SCAT / XSCAT transmitter serie, 1x memory-stick USB with installation software, 1x introductive manual for software installation and USB driver

Option:

Code CAVV141: Cable for temperature log / monitoring and mA output simulation (only for EvominiX serie)

CODE TO ORDER:

EVOMINI+SET

OPTION



CAVV141

Note: The shown executions can be produced upon request for a minimum quantity to be order. We reserve the right for technical modifications without prior notice.