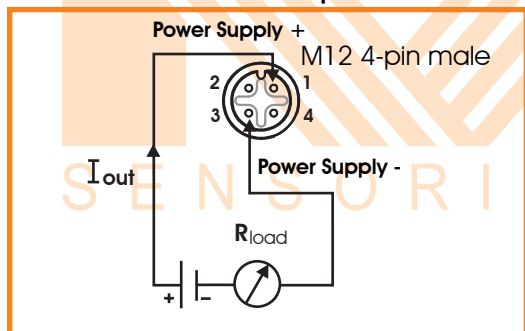Temperature transmitter with PC-PROGRAMMABLE range.
The integrated connections allow to mount the transmitter directly on the sensor.
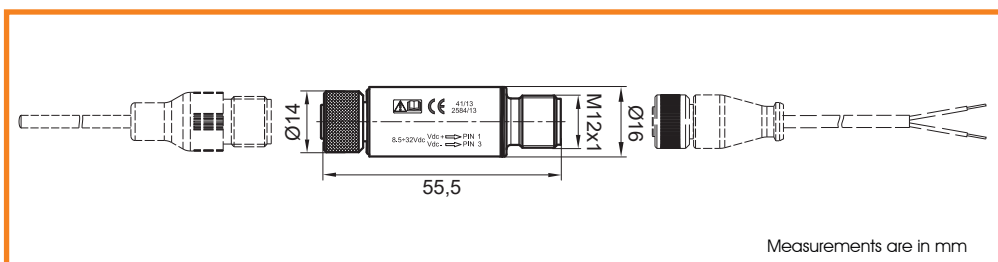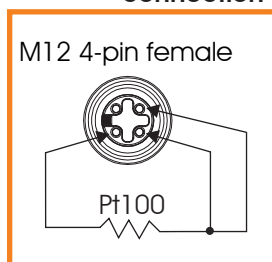This device it is compatible with TRM and TRC series.

GRUPPO ITALCOPPIE

EVOMINI+ CM

PROGRAMMABLE TEMPERATURE TRANSMITTER WITH INTEGRATED M12 CONNECTORS, 4-20mA OUTPUT AND METALLIC BODY

EVOMINI+

Output connection

Power Supply +
M12 4-pin male
I_{out}
Power Supply -
R_{load}

Input sensor connection

M12 4-pin female

Pt100

Measurements are in mm

TECHNICAL DATA

Body:
Stainless steel AISI316L

Probe type:
Connection compatible with RTD's TRM and TRC series

Connection:
M12x1 male in accordance to VDE0627 (output connection)
M12x1 female in accordance to VDE0627 (input connection Pt100)

Sensor:
RTD Pt100 ($\alpha = 0,00385$) 3 wire connection
Range:$-50 \div 800°C$

Sensor current:
$\sim 0,5mA$

Maximum sensor wire resistance:
$20 \, \Omega$ / wire

Sensor break monitoring:
Selectable:
Upscale (>21.0 mA) or Downscale (<3.6 mA) action

Sensor short-circuit:
Fixed to Downscale (<3.6 mA) action

Output:
Signal: $4 \div 20mA$
Permissible load: 700Ω @ 24Vdc [$RLo= (Vsupply-8,5)/0,020$]
Response time (90%): $<50ms$

Isolation In - Out:
Non-isolated

Power supply:
$8,5 \div 32Vdc$ (polarity protected)

Environment conditions:
Temperature: $-40 \div 80°C$ (for the metallic body)
Relative Humidity: $0 \div 100\%$
Vibrations: in accordance to IEC 68-2-6, test Fc, 84-2000Hz, 10g
EMC: in accordance to EN 61326

Degree of protection:
IP65 and IP67 in accordance to IEC60529

Accuracy:
Max. value between $\pm 0,2°C$ and $\pm 0,2\%$ of span

Temperature influence (Deviation from 20 °C):
Max. value between $\pm 0,3°C / 25°C$ and $\pm 0,3\%$ of span / 25°C

Sensor wire influence:
Negligible, with equal wire resistance

Supply voltage influence:
Negligible

Range configurations:
It is possible set the input temperature range (span) between -50°C to 800°C by the EVOMINI+SET configuration kit (it is needed a PC with OS Windows).
Zero adjustments: any value between -50°C to +50°C.
Minimum span: 50°C or 20°C (if the zero point is one of these values: -40°C, -20°C, 0°C, 20°C, 40°C, the minimum span is 20°C, otherwise is 50°C).
Sensor error compensation: over 2 points (max 1% of span)

Factory setting:
$0 \div 150°C$ / sensor break $>21mA$ (Upscale)

Option:
On request, adjustment on 1 or 2 points.
Extension cable with overmoulded M12 connector (Ip67).
Lenght available on stock: 3/ 8 / 12 m (others lenghts on request)

CODE TO ORDER:

EVOMINI+CM#	R	M	X

EXTENSION CABLE:

PRV #		AG	C	XXX

3M	3000
8M	8000
12M	M120

italcoppie SENSORI

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.