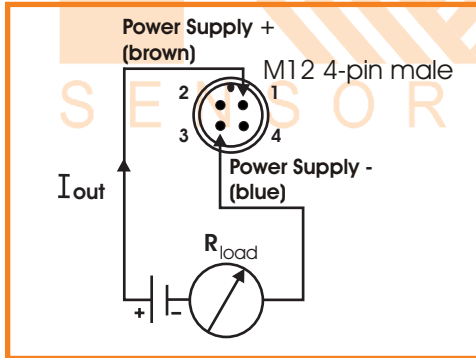Transmitter for cold temperature with PC-PROGRAMMABLE range. The integrated connections allow to mount the transmitter directly on the sensor. This device it is compatible with TRM and TRC series.
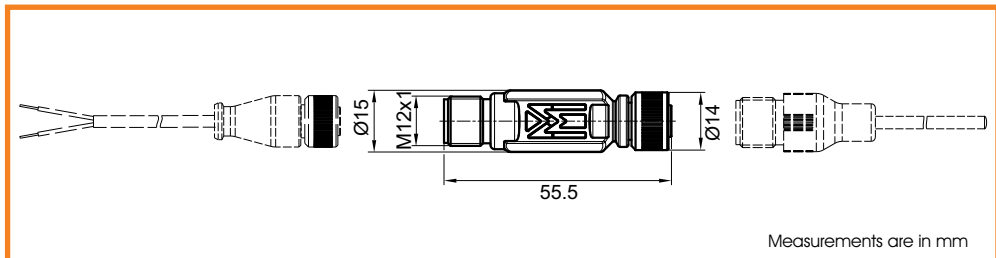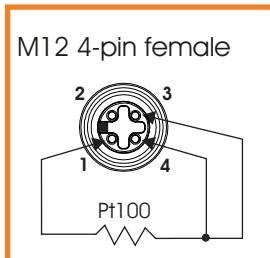
EVOMINI CRYO TRANSMITTER

PROGRAMMABLE TRANSMITTER FOR LOW TEMPERATURE WITH INTEGRATED M12 CONNECTORS AND 4-20mA OUTPUT

EVOMINI CRYO

Output connection

Power Supply + (brown)

M12 4-pin male

2 1
3 4

I_{out}

Power Supply - (blue)

R_{load}

+ −

Input sensor connection

M12 4-pin female

2 3
1 4

Pt100

Ø15
M12x1
Ø14

55.5

Measurements are in mm

TECHNICAL DATA

Body:
Thermoplastic material

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 (α = 0,00385) 3 wire connection
Range:-200÷200°C

Sensor current:
~ 0,5mA

Maximum sensor wire resistance:
20 Ω / 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÷20mA
Permissible load: 700Ω @ 24Vdc [RLo= (Vsupply-8,5)/0,022]
Response time (90%): <50ms

Isolation In - Out:
Non-isolated

Power supply:
8,5÷32Vdc (polarity protected)

Environment conditions:
Temperature: -40÷80°C (for the plastic body)
Relative Humidity: 0÷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 ±0,2°C and ±0,2% of span (-100÷200°C)
Max. value between ±0,3°C and ±0,3% of span (<-100°C)

Temperature influence (Deviation from 20 °C):
Max. value between ±0,3°C / 25°C and ±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) by the EVOMINI+SET configuration kit (it is needed a PC with OS Windows).
Zero adjustments: -200°C / -100°C / -50°C / -40°C / 0°C.
Minimum Span: 50°C
Sensor error compensation: over 2 points (max 1% of span)

Factory setting:
-40÷60°C / sensor break >21mA (Upscale)

Option:
On request, adjustment on 1 or 2 points

CODE TO ORDER:

EVOMINICRC#	R	M	X

GRUPPO ITALCOPPIE
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.