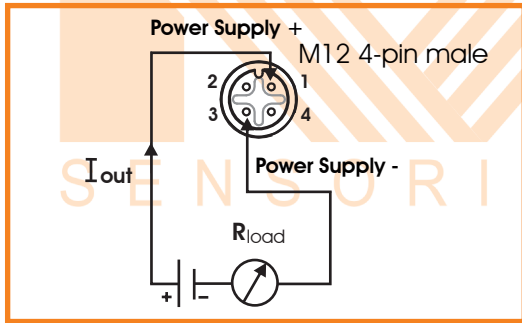Temperature transmitter with PC-PROGRAMMABLE range.
The integrated connections allow to mount the transmitter directly on the sensor.
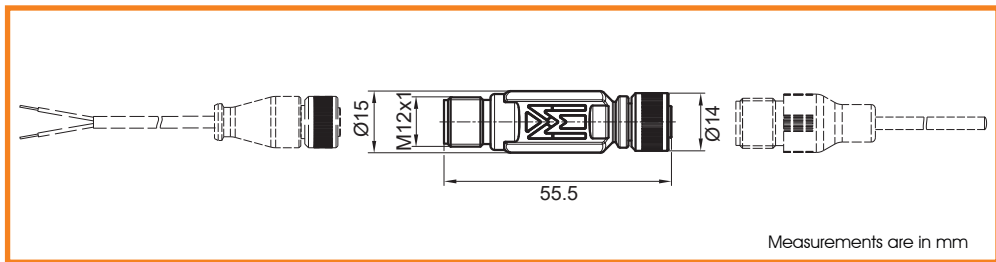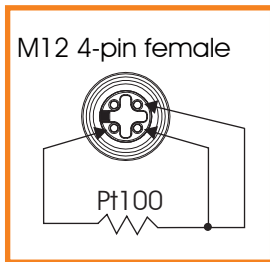This device it is compatible with TRM and TRC series.

EVOMINI+ TRANSMITTER

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

9001:2000

EVOMINI+

Output connection

Power Supply +

M12 4-pin male

2 1
3 4

I_{out}

Power Supply -

R_{load}

+ −

Input sensor connection

M12 4-pin female

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:-50÷800°C

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)/0,020]
Response time (90%): <50ms

Isolation In - Out:
Non-isolated

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

Environment conditions:
Temperature: -40÷80°C (for 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

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) 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÷150°C / sensor break >21mA (Upscale)

Option:
Extension cable with overmoulded M12 connector (IP67).
Lenght available on stock: 3/ 8 / 12 m (others lenghts on request)

CODE TO ORDER:

EVOMINI+C#	R	M	X

EXTENSION CABLE:

PRV #		AG	C	XXX

3M	3000
8M	8000
12M	M120

EVM+03UK - REV 4
APRIL 2017

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.

italcoppie
GRUPPO ITALCOPPIE
SENSORI