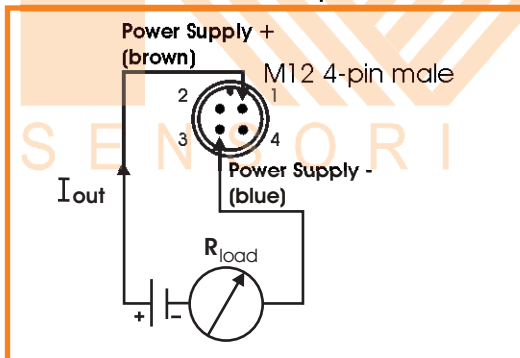


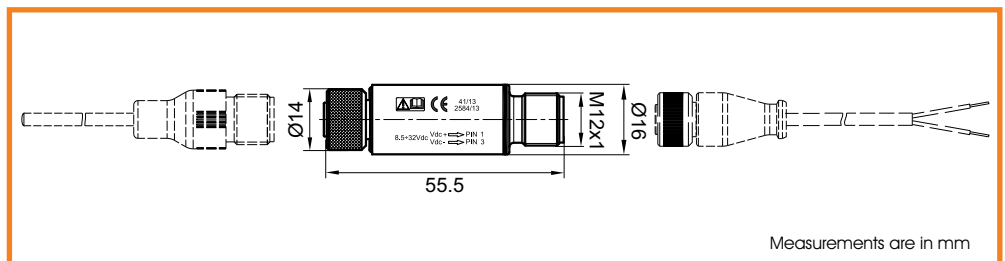
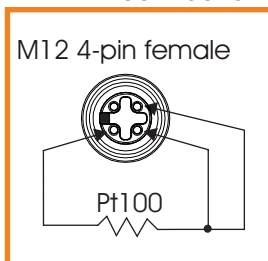
Temperature transmitter with PC-PROGRAMMABLE range. The integrated connections allow to mount the transmitter directly on the sensor. This device it is compatible with TRM and TRC series.

# GRUPPO ITALCOPPIE EVOMINI + CM PROGRAMMABLE TEMPERATURE TRANSMITTER WITH INTEGRATED M12 CONNECTORS, 4-20mA OUTPUT AND METALLIC BODY

Output connection



Input sensor connection



## 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:  $-50 \div 800^{\circ}\text{C}$

### Sensor current:

$\sim 0,5\text{mA}$

### Maximum sensor wire resistance:

$20 \Omega / \text{wire}$

### Sensor break monitoring:

Selectable:  
Upscale ( $> 21,0 \text{ mA}$ ) or Downscale ( $< 3,6 \text{ mA}$ ) action

### Sensor short-circuit:

Fixed to Downscale ( $< 3,6 \text{ mA}$ ) action

### Output:

Signal:  $4 \div 20\text{mA}$   
Permissible load:  $700 \Omega @ 24\text{Vdc}$  [ $R_{Lo} = (V_{supply} - 8,5) / 0,020$ ]  
Response time (90%):  $< 50\text{ms}$

### Isolation In - Out:

Non-isolated

### Power supply:

$8,5 \div 32\text{Vdc}$  (polarity protected)

### Environment conditions:

Temperature:  $-40 \div 80^{\circ}\text{C}$  (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  $\pm 0,2^{\circ}\text{C}$  and  $\pm 0,2\%$  of span

### Temperature influence (Deviation from $20^{\circ}\text{C}$ ):

Max. value between  $\pm 0,3^{\circ}\text{C} / 25^{\circ}\text{C}$  and  $\pm 0,3\%$  of span /  $25^{\circ}\text{C}$

### Sensor wire influence:

Negligible, with equal wire resistance

### Supply voltage influence:

Negligible

### Range configurations:

It is possible set the input temperature range (span) between  $-50^{\circ}\text{C}$  to  $800^{\circ}\text{C}$  by the EVOMINI+SET configuration kit ( it is needed a PC with OS Windows).

Zero adjustments: any value between  $-50^{\circ}\text{C}$  to  $+50^{\circ}\text{C}$ .

Minimum span:  $50^{\circ}\text{C}$  or  $20^{\circ}\text{C}$  (if the zero point is one of these values:  $-40^{\circ}\text{C}$ ,  $-20^{\circ}\text{C}$ ,  $0^{\circ}\text{C}$ ,  $20^{\circ}\text{C}$ ,  $40^{\circ}\text{C}$ , the minimum span is  $20^{\circ}\text{C}$ , otherwise is  $50^{\circ}\text{C}$ ).

Sensor error compensation: over 2 points (max 1% of span)

### Factory setting:

$0 \div 150^{\circ}\text{C}$  / sensor break  $> 21 \text{ mA}$  (Upscale)

### Option:

On request, adjustment on 1 or 2 points

## CODE TO ORDER:

EVOMINI+CM#	R	M	X
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