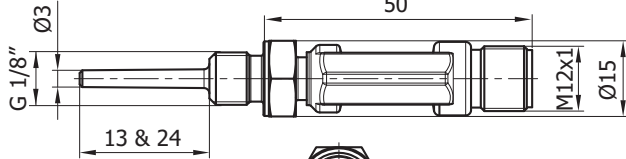


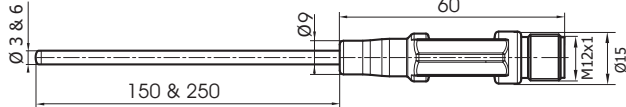
Dimensions

*Measurements are in mm

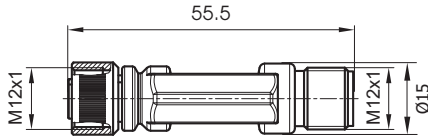
EVOMINI+ COMPACT (EVOMINI+TP#)



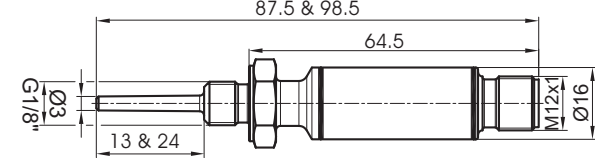
EVOMINI+ M.I.C. (EVOMINI+I#)



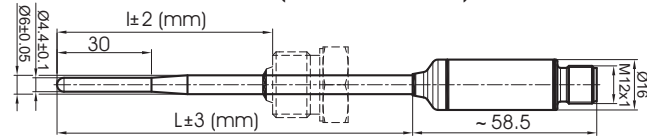
EVOMINI+ TRANSMITTER (EVOMINI+C)



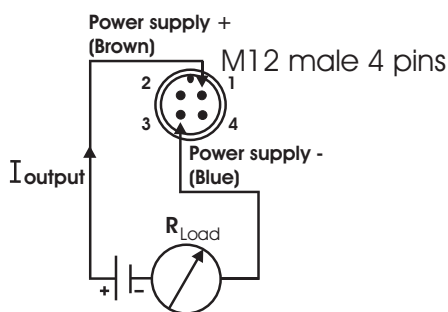
EVOMINI+ COMPACT INOX (EVOMINI+TM#)



EVOMINI+ INOX (EVOMINI+F#)



Output connections



Technical data:

Body:	Thermoplastic material / AISI316L
Probe type:	Compact model (thermowell): AISI 316L M.I.C. Model: compact mineral insulated s.s. AISI 316L Transmitter model EVOMINI+C: input connection compatible with TRM and TRC series
Probe minimum bending radius:	Only for the M.I.C. model: three-times the outer diameter (except the sensing tip which length is 30mm)
Connector:	M12 male in accord. to VDE0627 (output connector) M12 female in accord. VDE0627 (input connector [Pt100] only for the transmitter model EVOMINI+C)
Sensor:	RTD Pt100 ($\alpha = 0,00385$) 3-wire connection Range: $-50 \div 500^{\circ}\text{C}$ (M.I.C. model) Range: $-50 \div 100^{\circ}\text{C}$ (compact model) Range: $-50 \div 800^{\circ}\text{C}$ (transmitter model) Note: T _{max} electronic section: 80°C
Sensor current:	$\sim 0,5 \text{ mA}$
Maximum sensor wire resistance:	$20 \Omega / \text{wire}$
Sensor break monitoring:	Selectable during configuration between upscale ($> 21,0 \text{ mA}$) or downscale ($< 3,6 \text{ mA}$) action
Sensor short circuit:	Fixed: Downscale ($< 3,6 \text{ mA}$) action
Range configuration:	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 $+50^{\circ}\text{C}$. Minimum Span: 50°C (if the zero value is set between one of these values: -40°C , -20°C , 0°C , 20°C , 40°C , the minimum span is 20°C rather than 50°C). Sensor error compensation: over 2 points (max 1% of span)
Output:	Signal: $4 \div 20 \text{ mA}$ Permissible Load: $700 \Omega @ 24 \text{ Vdc}$ (see output load diagram) Transmitter response time (90%): $< 50 \text{ ms}$
Isolation In-Out:	Non-isolated
Power supply:	$8,5 \div 32 \text{ Vdc}$ (polarity protected)
Environments conditions:	Temperature: $-40 \div 80^{\circ}\text{C}$ (for electronic section) Relative humidity: $0 \div 100\%$ EMC: in accordance to EN 61326 Vibrations (for model C): in accordance to IEC 68-2-6, Test Fc, $84-2000 \text{ Hz}$, 10 g
Degree of protection:	IP65 and IP67 in accordance to IEC60529
Accuracy:	Transmitter: Max. $\pm 0,2^{\circ}\text{C}$ or $\pm 0,2\%$ of span Pt100 sensor: class A up to 300°C in accord. to IEC751
Temperature influence: (deviation from 20°C)	Max. $\pm 0,3^{\circ}\text{C} / 25^{\circ}\text{C}$ or $\pm 0,3\%$ of span / 25°C
Sensor wire influence:	Negligible with equal wire resistance
Supply voltage influence:	Negligible
Response time:	Test in water to IEC751- time for reaching 63,2% of thermal gap Models TP / TM: $< 3,5 \text{ sec.}$ Models I: diam. 3mm $< 3,5 \text{ sec.}$, diam. 6mm $< 13 \text{ sec.}$ Models F: $< 5 \text{ sec.}$

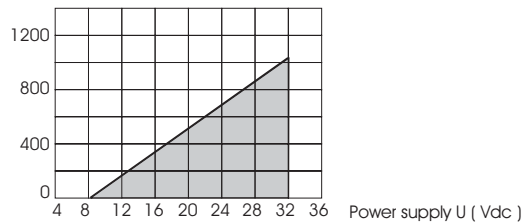
Factory default parameters: Range $0 \div 150^{\circ}\text{C}$, Sensor break indication Upscale ($> 21 \text{ mA}$). For different configurations see the label stuck on the body's device.

⚠ Important note for the models EVOMINI+ TP / TM ⚠

These models can measure a temperature up to 100°C max; higher temperatures can damage the electronic section because of a temperature transfer from process to device's body (T_{max} electronic 80°C).

Output load diagram

$$R_{\text{load}} (\Omega) = (U - 8,5) / 0,022$$



Input connections



Note:
Only for EVOMINI+C model