Trasmitter and probe are integrated in one only device, created entirely with stainless stell; it is possible to weld on the stem different type of process connections. This device for cold temperature is very useful in food, chemical and pharmaceutical industry.

Output connection



PROGRAMMABLE TRANSMITTER FOR LOW TEMPERATURE WITH METALLIC BODY, Ø6mm STEM TAPERED TO 4,4mm AND 4-20mA OUTPUT



### **TECHNICAL DATA**

#### Body:

Stainless steel AISI 316L

### Stem dimensions:

Lenght: 150mm (other lenghts available on request) Diameter: Ø6mm tapered to Ø4.4mm

### Probe type:

Stainless steel AISI 316L

Process connection: Different types of process connections available

### Connection:

M12x1 male in accordance to VDE0627 (output connection) Sensor:

RTD Pt100 class A up to 200°C in accordance to IEC751 Range: -200 ÷ 200°C Tmax. Electronic:80°C

### Sensor break monitorina:

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: 700 Ω@ 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 metallic body) Relative Humidity: 0÷100% Operative pressure: 100bar max (Ref. Zone «A») EMC: in accordance to EN 61326

# Degree of protection:

IP65 and IP67 in accordance to IEC60529

#### Accuracy: Transmitter:

Max. value between  $\pm 0,2^{\circ}$ C and  $\pm 0,2^{\circ}$  of span (-100  $\div 200^{\circ}$ C) Max. value between  $\pm 0.3^{\circ}$ C and  $\pm 0.3^{\circ}$  of span (<-100°C) Sensor: class A in accordance to IEC751

### Temperature influence (Deviation from 20 °C):

Max. value between  $\pm 0.3^{\circ}$ C / 25°C and  $\pm 0.3^{\circ}$  of span / 25°C 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 configuration:

 $-40 \div 60^{\circ}$ C /sensor break > 21mA (Upscale)

### Response time:

<5 sec (Test in water to IEC751- time for reaching 63,2% of thermical gap)

Option:

On request, adjustment on 1 or 2 points



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