

Application

- Measurement of temperature in f. inst. meat and fruit during transportation specially onboard ships
- The operating range is from -40 to 70°C
- Fields of application
 - Marine sector
 - Containers

Technical features

- Pt100 resistance thermometer acc. to IEC 751
- 3-wire configuration is standard
- Protective tube in stainless steel, needle shaped and with handle
- Mounted with solid rubber insulated cable with flying leads or a connection box
- Solid construction with high resistance against vibration acc. to IEC 68-2-6
- Type approved by classification societies (see page 2)

Ordering

The requested sensor is selected from the table below
The colour code means:

- Standard: Built of standard modules (short delivery time)
- Variant: Modified standard modules
- Special: Special versions and materials. We are specialist in temperature measurement. Please contact us and we will do our utmost to solve your specific measuring task

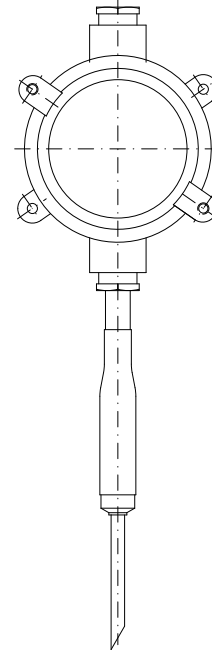


Fig. 1

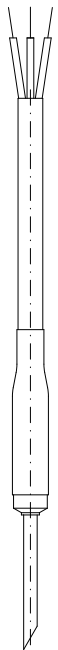


Fig. 2

Ordering information

Specification number	1805-	Sensor
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Type

- Fig. 1 With cable and connection box 0
- Fig. 2 with cable with flying leads 1
- Special: s

Cable length (meter)

- 1 2 12 meter
- x x Special (Min. 1m)

Cable type

- 0 1.5mm² Rubber cable
- s Special:

Protective tube

- Stainless, acidproof steel, W.no. 1.4571 (AISI 316Ti)
- 6mm OD: Length: 90mm 0
- Special: s

Connection. Wiring configuration

- 0 3-wire (only 1xPt100)
- 1 4-wire (only 1xPt100)
- 2 2-wire (allways for 2xPt100)

Measuring range

- 40 +70°C 0
- Special: s

Tolerance acc. to IEC 751

- 0 Class B, i.e. ± (0.3°C + 0.005 x t_{actual}) °C
- 1 Class A, i.e. ± (0.15°C + 0.002 x t_{actual}) °C
- 2 1/3 Class B @ 0°C, i.e. ± (0.10°C + 0.005 x t_{actual}) °C
- 3 1/6 Class B @ 0°C, i.e. ± (0.05°C + 0.005 x t_{actual}) °C
- s Special

Resistance value (ohm) acc. to IEC 751

- 1xPt100 0
- 2xPt100 1
- Special: s

Accessories

Customer information

Name:
Tel.:

Dimensions

Fig. 1

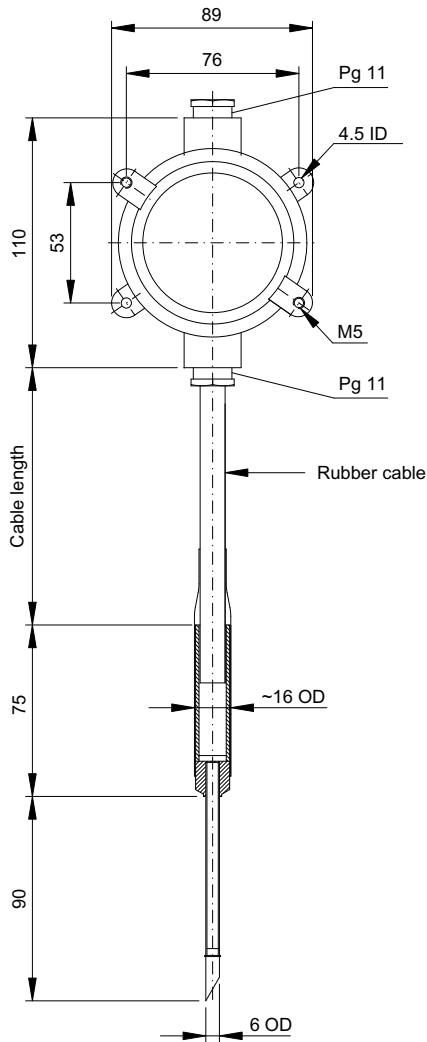
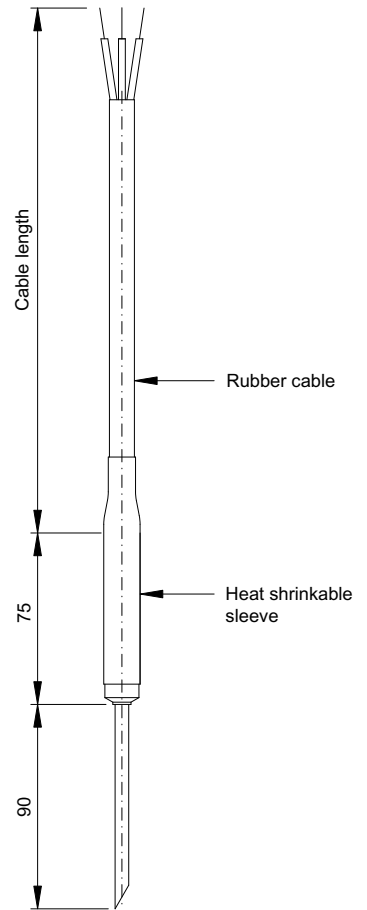


Fig. 2



Enclosure

Connection box in silumin, grey. Degree of protection: IP67

Type Approvals

- Lloyd's Register of Shipping

Response time

Sheath diameter	Response time in seconds (guidelines)	
	In water @ 0.2m/sec	
	$t_{0.5}$	$t_{0.9}$
6	7	20

Note:

The 0.5/0.9 time is the time that it takes the sensor to reach 50%/90% of the final value of a temperature change of a medium.

If media and velocity are different from the ones stated, the time can change significantly.

Connection diagram

