

DESCRIPTION AND APPLICATION

This temperature sensor is designed for contact surface temperature measurement. The sensor is delivered with a fastening strap and a locking clamp, and is suitable for measuring temperature of pipelines. Its dimensions also allow its placement under pipeline insulation. The standard temperature range of the sensor is -30°C to 105°C. The construction of the sensor itself is designed to insulate it from the ambient environment. The sensor can be used in all control systems compatible with the Pt 1000/3850 sensor. The sensor is designed for non-aggressive environment.

DECLARATION, CERTIFICATION, CALIBRATION

The manufacturer issues EU Declaration of Conformity

Calibration – All the products are subject to a final metrologic inspection performed by a comparison with etalons or working instruments. Continuity of

etalons and working instruments is amended by Section 5 of Act no. 505/1990 on metrology. The manufacturer offers an option to deliver sensors calibrated in the SENSIT s.r.o. company laboratory (according to the requirements of the EN ISO/IEC 17025 standard as amended), or in an accredited laboratory.

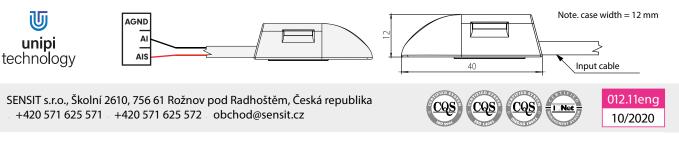
SPECIFIC ATIONS

SPECIFICATIONS	
Sensor type	PTS 350B
Sensing element type	Pt 1000/3850
Measuring range	-30 to 105 °C
Max./Recomm. ss measuring current Class. A: 0.5 mA / 0.2 mA: Tř. B: 0.8 mA / 0.3 mA	
Sensor accuracy class *)	Class A according to EN 60751 as amended, $\Delta t = \pm (0.15 + 0.002 t)$ in °C Class B according to EN 60751 as amended, $\Delta t = \pm (0.3 + 0.005 t)$ in °C
Sensor connection	According to the wiring scheme
Response time	$\tau_{0,5} \leq 13$ s (on a smooth prism surface without paste)
Insulation resistance	$>~200~\text{M}\Omega$ at 500 Vpc, 25 \pm 3 °C; humidity $<$ 85 %
Ingress protection	IP 65 according to EN 60529 as amended
Probe material	brass
Input cable	unshielded PVC, 2 x 0.35 mm ² (cable ambient temperature: -30 to 105°C)
Input wire resistance	0,102Ω / 1 m at 25 °C
Standard cable length	3 m
Case material	POLYAMIDE
Standard band length	40 cm
Min. pipeline diameter	20 mm
Working conditions	relative humidity: max. 85 % (at 25°C ambient temperature) atmospheric pressure: 87 to 107 kPa
Weight approx.	0.15 kg

*) Tested by submersion of the sensor into liquid, method error not considered - the influence of ambient temperature and outside factors, surface irregularities etc. For two-wire connection it is necessary to consider the input cable wire resistance. At 25°C, the wire resistance is 0.026°C/1 m.

WIRING DIAGRAM

DIMENSIONAL DRAWING



10-20eng

temperature

CE