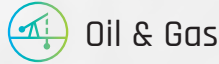


Resistance thermometer TYPE MNS



Tank Thermometer

- Mineral insulated thermometer for temperature measurement in insulation and concrete surroundings e.g. liquid gas tanks and LNG tanks.
- Measuring temperature range: -200°C +100°C.
- The measuring element is glass encapsulated platinum elements according to EN60751.
- Protective sheath of AISI filled with compressed MgO powder. Sensor tip Ø6 AISI 316L.
- 24 AWG PTFE.
- Response time (mean values) measured at velocities in: water at 0.4 m/s: $\tau_{0.5} = 6.4 \text{ sec.}$ - $\tau_{0.9} = 27 \text{ sec.}$
- Recommended measuring current: 1 mA (max. 2mA).
- Approvals: Ex ia IIC T6 Ga, FM13ATEX001X, IECEx FME 13.0002X, DNV-GL EU RO MR.

To achieve the highest accuracy we recommend the 4 wire calibrated version. Each calibrated sensor is supplied with a certificate starting its own individual coefficients R0, A, B and C to substitute the standard coefficients in the EN60751 platinum curve. By use of the coefficients the uncertainty of the sensor will be $\leq 20 \text{ mK}$ in the range -195 to 100°C. The transmitter will represent the major part of the total system uncertainty.

Options / accessories:

- 1) Junction box
- 2) Transmitters
- 3) Calibration
- 4) Factory Acceptance test (FAT)
- 5) Installation accessories

See separate data sheet for further information.

 EU RO MUTUAL RECOGNITION TYPE APPROVAL CERTIFICATE - Group members are:



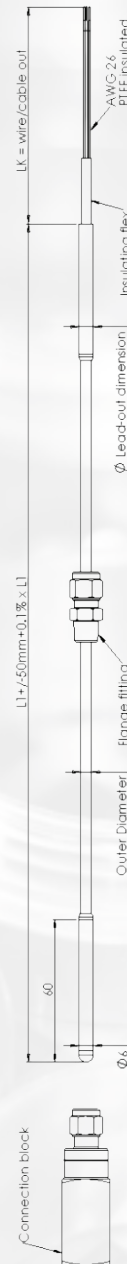
ClassNK



I-CLASS
Indian Register of Shipping



Ordering: See ordering form on back page



For installation and connection - see drawing 800-MNS-EX and installation manual.

Recommended Torque while mounting:
18" threaded part: 16-18 Nm (Max. 22 NM),
Compression part: max. 16-18 Nm.

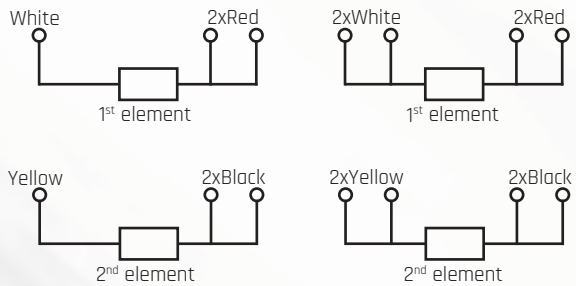


ORDERING FORM / RESISTANCE THERMOMETER *

TYPE MNS

<p>Sensor Length/L1 Min. 200 mm - max. 300,000 mm Optional length .. <input style="width: 50px;" type="text"/></p> <p>Outer Diameter Ø4.5 mm <input style="width: 20px;" type="text" value="5"/> Ø6.0 mm <input style="width: 20px;" type="text" value="6"/></p> <p>Number of elements 1xPt <input style="width: 20px;" type="text" value="S"/> 2xPt <input style="width: 20px;" type="text" value="D"/></p> <p>Wiring (Number of conductors) 3 wire <input style="width: 20px;" type="text" value="3"/> 4 wire <input style="width: 20px;" type="text" value="4"/></p> <p>Resistance in ohms at 0° 100 <input style="width: 20px;" type="text" value="1"/></p> <p>Tolerance Class EN 60751 Cl. A: ±0.15°C <input style="width: 20px;" type="text" value="1"/> Cl. B: ±0.3°C <input style="width: 20px;" type="text" value="2"/> Calibrated - 4 wire only <input style="width: 20px;" type="text" value="C"/></p> <p>Sensor Tip Ø6x60 <input style="width: 20px;" type="text" value="A"/></p> <p>Lead-out wire PTFE single wire <input style="width: 20px;" type="text" value="1"/></p>	<p style="text-align: right;">V 4.8</p> <p>MNS TAG No. - Project No. Max . 20 Characters - customer def. <input style="width: 100%; height: 15px;" type="text"/></p> <p>Extension length L2 None Min. 500 mm - 10,000 mm</p> <p>Sensor tip fitting None Sensor connection block</p> <p>Flange fitting None 1/8" NPT SS ferrule compression fitting 1/4" NPT SS ferrule compression fitting 1/2" NPT SS ferrule compression fitting 3/4" NPT SS ferrule compression fitting</p> <p>Junction box fitting None</p> <p>Lead-out wire/LK Min. 200 mm Optional length</p> <p>Lead-out dimension Straight Ø6 Ø10 Ø12</p>
---	--

Connection diagram:



*Some configurations are unavailable. Your Senmatic sales person will notify you if you have made an incorrect selection.