MOLDED PLATINUM TEMPERATURE SENSOR

MODEL - MPT

FEATURES

- Low cost
- Water-tight construction
- Easy to use flexible design
- ◆ Temperature range: -50~105°C
- Employs standard Pt 100 or Pt 1000 DIN platinum resistance temperature elements
- Direct temperature measurement without need of any further assembly



DESCRIPTION

MPT temperature sensor is made up of Pt 100Ω or Pt- 1000Ω platinum resistance temperature detector and connection cable molded together in thermoplastic rubber insulation. The sensor can be used for direct temperature measurement in air or liquids. The connection cable can be connected to a temperature indicator for display of temperature. MPT sensor features small size, flexible vibration-proof design and completely waterproof construction. The sensor is available in either 2-wire or 4-wire designs with standard one meter long connecting cable. Extra cable is available upon request from customers. Optional stainless steel enclosures are available to protect the probe tip.

APPLICATIONS

MPT has numerous applications in various types of industries for contact type or immersion temperature measurement in air or liquids within the range of -50 to 105°C. It can be used in chemical industries for continuous immersion in corrosive liquids e.g., electrolytic processes and for temperature measurement of hot or frosted pipe-lines. It is hygienic for temperature measurement in food industry as it does not contaminate food products. It also finds applications for temperature measurement in automobile or other vibrating machinery. It can also be used as a sub-assembly for low temperature resistance temperature detector assemblies.



Direct temperature measurement of hot liquids



Temperature measurement of frosted pipelines

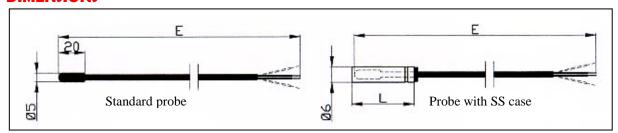


Long time dipping in corrosive liquids

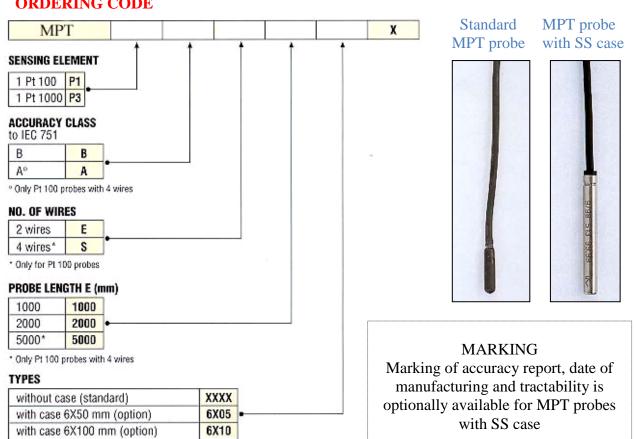
TECHNICAL SPECIFICATIONS

Sensing element	Single RTD, 1 Pt 100Ω at 0° C or 1 Pt 1000Ω at 0° C as per
_	IEC 751 class B or class A* (* class A available only for Pt
	100 probes with 4-wire circuit)
Type of construction	Sensor and extension cable molded together as one hot
	vulcanized unit
Temperature range	-50 ~ 105°C
Cable data	2 or 4 stranded copper wires 0.35 mm ² (22 AWG), each
	conductor polypropylene insulated, overall thermoplastic
	elastomer insulation, outer diameter ~ 3.5mm
Insulation resistance	$100~\text{M}\Omega$ with $100~\text{VDC}$.
Optional stainless steel case	SS 316 case (50 mm length X 6mm OD or 100mm length X
	6mm OD) is available for protection of the sensor tip

DIMENSIONS



ORDERING CODE



DUE TO CONTINUOUS PRODUCT IMPROVEMENT, THE DESIGN AND TECHNICAL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE

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