

TP7



The TP7 has been developed for ease of use with its reel-case design. In addition to the case, the TP7 is designed to provide very high reliability, less maintenance, an extended temperature range, and high accuracy without a higher price. This has been achieved by utilizing a platinum RTD temperature sensor, using low power programmable electronics, improving the packaging and integrating field proven components. Other hardware items include the stretch cord grounding assembly and reel locking mechanism.

To endure the environment, the TP7 is manufactured of materials which are both immune to petrochemicals and are non-sparking. The enclosure is made of high impact plastic which dissipates static electricity and has proven to be tolerant to most petrochemicals, caustics or acids. As with all ThermoProbe instruments, the probe assembly is constructed with a very flexible, static-dissipating, aramid fiber reinforced, non-stick cable, and stainless steel sensor components. To ensure longevity of the user interface the faceplate is fabricated of engraved aluminum plate, a scratch resistant polycarbonate window and an O-Ring sealed switch.

Operational Attributes

Easily replaceable 9V Battery, provides an average of 50 hours operation. If probe assembly replacement is necessary, the terminals allow simple connection of the wires. Circuit logic automatically indicates low battery condition, shows readout integrity before each operation, automatically shuts off after two minutes and displays error codes for failure determination. The low power backlight for night operation is photo sensor controlled for convenience and battery conservation. Celsius or Fahrenheit units with C/F indication can be easily chosen by an internal selector without recalibration.

Certifications

 Listed 29G0			Intrinsically Safe Thermometer Class I, Div. 1 Groups ABCD North America ATEX II 2G EEx ia IIB T3/T6 Europe, higher designations available. ATEX II 2G EEx ia IIC T3/T6 Europe, higher designations available. TIIS Ex ia IIB T4 Japan	 Warning: This device must be bonded (grounded) before and during introduction into the tank and remain bonded until complete withdrawal from the tank.
ATEX	TIIS (JAPAN)			

SPECIFICATIONS

Maximum Dimensions:	13.5 x 7.25 x 4.5 in. 34.3 x 18.4 x 11.4 cm
Total Weight:	3 lbs with 75 ft. of cable 1.4 kg with 23m of cable
Battery:	Type: 9 volt Alkaline, approved types listed on device. Life: Approximately 50 hours Battery manufacturer's battery operating temperature range -4° to 130°F, -20° to 54°C Note: Battery may not provide adequate power if ambient temperature is below 40°F, 4°C or above 130°F, 54°C
Case Materials:	Polypropylene Blend, Stainless Steel and Aluminum.
Limited Warranty:	90 days on Probe Assembly 1 year on other components
Probe:	Class A Platinum RTD in Stainless Steel Probe with static dissipating cable jacket and Aramid Fiber reinforcing for cut and smash resistance. Cable insulation are fluorocarbon polymers such as FEP, PFA, or similar materials.
Temperature:	Resolution 0.1 Degrees Range* 14 to 370°F, -10 to 188°C *Lower Range Available For Cold Climates Calibrated Accuracy: ±0.2°F from 32 to 200°F ±0.5°F from 200 to 300°F ±0.1°C from 0 to 100°C ±0.3°C from 100 to 150°C Long term drift not to exceed 0.05%/yr Meets API requirements.

Specifications subject to change

TYPICAL APPLICATIONS

Custody Transfers, Inventory, Tank, Pipeline, Barge, Ship, Railcar, Tank Truck. (Recommended Operation: API 7, Intl. Safety Guide For Oil Tankers and Terminals.)

Other Applications: Proving Systems (API 4)
Metering Systems (API 5)
Metering Systems (API 6)

Materials: All petrochemicals, caustic, acid, alkalis, powders. Molasses, syrups, distilled spirits.