

# TP8



The TP8 has been designed to be simple yet very versatile, with circuit and sensor components that are highly accurate and reliable over an extended temperature range. The instrument is compact, with cable storage, probe holders and handles integrated into the case. Depending on the service which the user needs, the case will accommodate both our standard probe assembly or asphalt probe assembly. Models intended for asphalt and molten sulphur applications are designated with the part number suffix "AW". Other items include the coil cord grounding assembly, carry strap and user instruction sheet. To endure the environment and be intrinsically safe, the TP-8 is manufactured of materials which are both immune to petrochemicals and are non-sparking. The enclosure is made of extruded aluminum with a nominal thickness of 0.1"/2.5mm. 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, all text is engraved, the window is scratch resistant and the switch is O-Ring sealed.

### Operational Attributes

Easily replaceable 9V Battery, provides an average of 50 hours operation. 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

 	 	 	<p><b>Intrinsically Safe Thermometer</b>            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</p>	 <p><b>Warning:</b>            This device must be bonded (grounded) before and during introduction into the tank and remain bonded until complete withdrawal from the tank.</p>
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## SPECIFICATIONS

Maximum Dimensions:	6.6 x 4.5 x 4.2 in. 16.7 x 11.4 x 10.7 cm
Total Weight:	3.7 lbs with 75 ft. of cable 1.7 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:	6063 - T6 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.