



ThermoProbe Inc.

TP-5



Listed
29GO

Intrinsically Safe Thermometer
Class I, Div. 1, Groups CD



EEx ia IIB T3
KEMA No. Ex-95.C.9985



Warning: This device must be bonded (grounded) before and during introduction into the tank and remain bonded until complete withdrawal from the tank.

The TP-5 is a basic petrochemical gauging thermometer designed to be rugged, simple and compact yet remain lightweight. The case is constructed of extruded aluminum with an integrated probe holder. An aluminum plate attached below the case retains the probe cable. To ensure reliability in severe conditions, cover plates are gasketed and an unbreakable waterproof switch is pressure sealed at the opening. The unit is powered by a common 9V transistor battery easily accessible and removable, yet securely fixed. A single button provides on/off operation and a photocell controls the backlight for night use. Calibration can be performed without opening the case by removing two access screws. Probe Assembly termination at the circuit board is performed with a lever type terminal for quick replacement. Fahrenheit or Celsius scale is jumper selectable for versatility. LCD segments can be self tested from the circuit board to insure readout integrity. All electronic components except the probe assembly are mounted to a single circuit board eliminating wires and connectors. The instrument has been tested to be Intrinsically Safe to UL 913, CSA 22.2 No. 157 and CENELEC standards EN 50 014 and EN 50 020.

SPECIFICATIONS

Maximum Dimensions: 9.05 x 7.20 x 1.76 in.
23 x 18.3 x 4.5 cm.

Total Weight: 3 lbs with 75 ft. of cable
1.4 kg with 23m of cable

Approved Battery Type: 9 volt Alkaline,
Duracell MN1604
Rayovac A1604
Eveready 522

Battery Life: Approximately 40 hours

Case Materials: Anodized Aluminum

Limited Warranty: 90 days on Probe Assembly
1 year on other components.

Probe: Stainless Steel housing with static
dissipating Teflon cable jacket, 0.020"
thick
Standard lengths 50'/15m 75'/23m 110'/34m

Temperature Range: -60 to 200 °F
-55 to 150 °C

Accuracy: ±0.3 °F, 32 to 200 °F
±0.2 °C, 0 to 100 °C

Options: Extra Weight Probe Housing
Asphalt Weight Probe Housing
Extra Length Sensor
Railcar Sensor
Custom

TYPICAL APPLICATIONS

Custody Transfers, Inventory, Tank,
Pipeline, Barge, Ship,
Railcar, Tank Truck.
(Recommended Operation:
API 7.3, Intl. Safety Guide For Oil
Tankers and Terminals.)

Calibration:
Propane Meters (API 7.2)
Loading Rack Meters
Computerized Tank Systems
(API 7.4)

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