



RIGANA MANUFACTURING SPEC SHEET

TP7-D INTRINSICALLY SAFE PETROLEUM GAUGING THERMOMETER



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The TP7-D petroleum gauging thermometer is designed and tested to meet the latest international Intrinsically Safe Ex standards for continuous flammable conditions, Zone 0.

- The TP7-D is a new rugged stainless steel spool-based design based on the popular TP7 models.
- The improved handle allows for storage of both standard and asphalt weight probes.
- As with previous models; the TP7-D features durable thin-film platinum RTD sensors to provide reliable temperature measurements, an automatic backlight for low light conditions, and a new circuit for increased accuracy.
- The interface now has a larger display with 1/2-inch (13mm) alpha-numeric characters and rugged raised buttons that are easy to use with gloves.
- The center button provides simple on/off operation.
- An intuitive menu allows the user to log readings, select Celsius or Fahrenheit units, display resolution, and calibration.
- Icons on the display aid the user in seeing temperature stability, battery condition, and in performing auxiliary functions.
- Easily accessible AA batteries provide up to 200 hours of operation.
- With multiple probe configurations and allowable cable lengths up to 165 ft (50m), the TP7-D is ideal for many tank gauging applications.
- A limited one year warranty, NIST traceable 4 point calibration report and multi-language manual are included.

Temperature

- Resolution: 0.01 Degrees Range: -40°F to 400°F (-40°C to 204°C).
 - Note: Standard Calibration does not provide full range accuracy.
- Calibrated Accuracy: ±0.2°F from 32 to 200°F (±0.1°C from 0 to 100°C) ±0.5°F from 200 to 400°F (±0.3°C from 100 to 200°C).
- Custom calibration points and ranges available.
- 4 Point NIST Traceable Report of Test.
- Long-term drift not to exceed 0.05% a year.
- Meets API requirements.

Interface Features

- 1/2" (13mm) character LCD.
- Switchable units °C or °F.
- Resolution 0.1 or 0.01.
- Low Battery & Fault Indication.
- Calibration adjustment through faceplate buttons.
- Auto Off after 20 minutes.
- Stores and displays up to 10 Logged readings, Average, Lowest & Highest readings.
- Arrows indicating increasing/decreasing temperature.

Battery

- 2 AA Alkaline; Battery Life of approximately 200 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 extremely low or high.

Construction

Probe: 304 Stainless Steel, Sealant, Coaxial cable with Aramid Fiber & PFA Cable Jacket.

Enclosure: Stainless Steel Rugged panel mount buttons Static Dissipative Plastic Handle Nominal.

Body Dimensions: 12"L x 7"H x 5.5" W (30.5 x 17.8 x 14cm)
Nominal Weight: 4.5lb (2.0kg) with 75' standard weight probe assembly.

Typical Applications

Custody Transfers, Hazardous Location, Intrinsically Safe, Inventory, PET, Tank, Pipeline, Barge, Ship, Railcar, Tank Truck.

Materials: Gasoline, Diesel, Asphalt, Molten Sulphur, Petrochemical, Viscous, Caustic, Acid, Chemical, Alkali, Molasses, Syrup, Distilled spirits, Aviation fuel.

Recommended Operations: API 7.2, International Safety Guide for Oil Tankers and Terminals, API 4 and other recognized procedures and standards.

Certifications



Ex ia IIB T4 Ga
ITS17ATEX201515X
IECEx ETL 16.0051X

