THERMOPROBE DIGITAL GAUGING THERMOMETER

TP-9

ISO/IEC 17025 REPORT OF CALIBRATION INCLUDED

CE 0359 Ex II 2 (1) G Ex ib [ia] IIB T4
DEMKO 11 ATEX 1104891X
IECEx ULD 11.0008X

Specifications

Maximum Dimensions: 10"L x4.25"H x 6.4" W
Temperature Range: -40° to +400°F
-40° to +204°C
Probe: 304 Stainless Steel,
Sealant, Aramid Fiber
Reinforced, FEP or PFA
Cable Jacket, Coaxial
Construction
Enclosure Material:
Stainless Steel
Acetal (Delrin) Probe Holder
Polyvinylchloride Faceplate
Stainless Steel Fasteners
Stainless Steel Fasteners
Batteries: 2AAA Alkaline; Duracell
MX2400
Accuracy: ±0.2°F from -40 to 200°F
±0.5°F from 200 to 400°F

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, alkalies, powders. Molasses, syrups, distilled spirits.

Options
Extra Weight Probe
Asphalt Weight Probe
Extra Length Sensor
Railcar Sensor

The **TP9** employs the proven RTD design that has been used in the TP7 and TP8 for many years. A sealed industrial quality overlay provides a user interface that is easy to use with gloves. A stainless steel enclosure protects the circuit board and large LCD from penetration by impact, water and reactive liquids.

The new TP9 circuit board is an evolutionary step up from our highly accurate, reliable and successful TL1 laboratory thermometer. The Power Button's primary function powers the instrument for intervals of about 20 minutes since the last button was accessed. The Power Button can also be used to conserve power and clear the memory, or to make adjustment while in calibration mode. A simple menu operation is displayed by holding the Function Button, and alternately functions to allow adjustments in the calibration mode. Arrows on the left side of the display show the direction of the temperature reading and whether stability has been reached. At the user's discretion stabilized temperatures can be logged at numerous liquid levels for a running average and later displayed for the user's documenting purposes. But this feature never interferes with simply getting an accurate temperature reading.

To endure the environment and be intrinsically safe, the TP 9 is manufactured of materials, which are both immune to petrochemicals and are non-sparking. The enclosure is made of stainless steel. The probe assembly is constructed using non-stick cable and stainless steel sensor components.

Operational Attributes:

- Easily replaceable AA Batteries, provides an estimated *200 hours operation.
- Circuit logic automatically indicates low battery condition, automatically shuts off after twenty minutes, shows temperature trend and stabilization, displays error codes for failure determination.
- The low power backlight for night operation is photo sensor controlled for convenience and battery conservation.
- In nighttime conditions the backlight illuminates the display.
- Celsius or Fahrenheit units with C/F indication can be easily selected from the Function Button.
- User Manual explains intuitive calibration procedure that can be done through the external faceplate buttons.