



## TP5-C PETROLEUM GAUGING THERMOMETER

The TP5-C has all of the best qualities of the original TP5 and incorporates the latest and most reliable technology into its electronics and probe assembly. Many customers have used the TP5 over the years and have wanted to have a more robust and powerful version. You will truly appreciate the improvements found in the TP5-C.

Includes 4 Point NIST Traceable Calibration, a 90-day warranty on probe assembly and a one year warranty on all other components. The TP5-C employs the proven RTD sensor design that has been used in the TP7 and TP8 for many years. A sealed industrial quality overlay now provides a user interface that is easy to use with gloves. A sealed, anodized aluminum enclosure protects the circuit board and large LCD from penetration by impact, water, and reactive liquids. An auto-off feature has been added to save battery life.

The new TP5-C 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 up to 10 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 TP5-C is manufactured of materials, which are both immune to petrochemicals and are non-sparking. The probe assembly is constructed with a static-dissipating, non-stick cable, with stainless steel sensor components.

### SPECIFICATIONS

<b>Maximum Dimensions:</b>	9.5"L x 7.2"H x 1.76" W
<b>Probe:</b>	304 Stainless Steel, Sealant, Aramid Fiber Reinforced, FEP or PFA Cable Jacket, Coaxial Construction
<b>Enclosure Material:</b>	Anodized Aluminum Stainless Steel Fasteners
<b>Battery:</b>	2 AAA Alkaline; Duracell MX2400 Battery Life of approximately 100 hours Battery manufacturer's battery operating temperature range -4 to 130°F, -20 to 54°C  <i>Note: Battery may not provide adequate power if ambient temperature is below -4°F, -20°C or above 130°F, 54°C</i>
<b>Temperature:</b>	Resolution 0.1 Range: -40 to +400°F -40 to +204°C Calibrated Accuracy: ±0.2°F from 32 to 200°F ±0.5°F from 200 to 400°F ±0.1°C from 0 to 100°C ±0.3°C from 100 to 200°C 4 Point NIST Traceable Report of Test Long-term drift not to exceed 0.05%/year Meets API requirements

*Specifications subject to change*

### OPERATIONAL ATTRIBUTES

*Easily replaceable AAA Batteries, provides an estimated 100 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.*

*Celsius or Fahrenheit units with C/F indication can be easily selected using the Function Button.*

*User Manual explains intuitive calibration procedure that can be done through the external faceplate buttons.*

### 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)*

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

### CERTIFICATIONS



INTRINSICALLY SAFE THERMOMETER  
FOR USE IN HAZARDOUS LOCATIONS  
CLASS I, DIVISION 1, GROUPS ABCD  
Temperature Code T4  
Conforms to ANSI/UL Std. 913  
Cert. to CAN/CSA C22.2 No. 157-92



II 2 G  
EEx Ib IIB T4



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



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