

## ThermoProbe Digital Gauging Thermometer TP-5C

**ISO/IEC 17025 REPORT OF  
CALIBRATION INCLUDED**

### Specifications

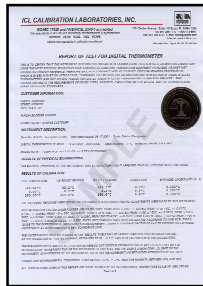
Maximum Dimensions: 9.5"L x 7.2"H x 1.76" W  
Temperature Range: -40° to +400°F  
-40° to +204°C  
Probe: 304 Stainless Steel,  
Sealant, Aramid Fiber  
Reinforced, FEP or PFA  
Cable Jacket, Coaxial  
Construction  
Enclosure Material: 5005, 5052 0.080"  
Aluminum Case, Handle,  
Plates  
Acetal (Delrin) Probe  
Holder  
Polyvinylchloride Faceplate  
Nitrile Rubber Cable Strap  
& Gasket  
Stainless Steel Fasteners  
Batteries: 2AAA Alkaline; Duracell  
MX2400  
Accuracy:  $\pm 0.2^{\circ}\text{F}$  from -40 to 200°F  
 $\pm 0.5^{\circ}\text{F}$  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,  
syrops, distilled spirits.

### Options

Extra Weight Probe  
Asphalt Weight Probe  
Extra Length Sensor  
Railcar Sensor



All ThermoProbe models shown in this catalog are  
intrinsically safe, Class1, Div.1, Groups CD  
Approved by Underwriters Laboratories

The TP-5C has all of the best qualities of the old TP-5 and incorporates the latest and most reliable technology into its electronics and probe assembly. Many customers have used the TP-5 over the years and have wanted to have a more robust and powerful version. You will truly appreciate the improvements found in the TP-5C.

The TP-5C employs the proven RTD sensor design that has been used in the TP-7 and TP-8 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 TP-5C circuit board is an evolutionary step up from our highly accurate, reliable and successful TL-1 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-5C 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.

### 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. In nighttime conditions the backlight illuminates the display. Celsius or Fahrenheit units with C/F indication can be easily chosen from the Function Button. User Manual explains intuitive calibration procedure that can be done through the external faceplate buttons.