

Field calibration for thermometers

TPI 310C FIELD CALIBRATION

Test the TPI advantage



Accessories

Adapters
Cables/Connectors
Oscilloscope Probes
Test Leads

Clamp-on meters (Current)

Combustion Efficiency Analyzers

Gas Detection
Carbon Monoxide (CO)
Combustibles
Refrigeration

Indoor Air Quality (IAQ)

Manometers (Pressure)

Multimeters (DMMs)

Oscilloscopes (Hand held)

Specialty Testers
Insulation
Multifunction
Photo-tachometer

Temperature

Contact
Non-Contact (IR)
Pocket Digital

Temperature Probes

J-Type
K-Type
T-Type
Thermistor

Test Leads & Accessories

Fused
Modular
Push-on
Screw-on

TPI

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Step-by-Step Procedures

1. Fill a plastic or metal container with crushed ice and add clean water to a depth of at least 4 inches. Stir the ice and water for 2 to 3 minutes prior to performing calibration to ensure the water is completely chilled. Make certain there is plenty of ice in the mixture and always use clean water. Distilled water works well. The temperature of an ice bath is approximately 32°F (0°C).
2. Insert the stainless steel shaft of the 310C into the ice bath making sure at least one inch of the tip is immersed. Allow the reading on the thermometer to stabilize.
Note: The temperature reading must be within 23°F to 41°F (-5°C to 5°C) for calibration to have effect.
3. Press and hold down the **HOLD** button for approximately 8 seconds until "CAL" is displayed. "CAL" will display for approximately 2 seconds and then the 310C will return to normal operation. Calibration is complete.

Note: If the temperature reading was not within 23°F to 41°F (-5°C to 5°C) when step 3 was performed no change in calibration occurred. The 310C was designed with this feature to prevent improper calibration.

