

# Field calibration for thermometers TPI 317c 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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USA  
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Fax: 503-520-1225

### 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 317c 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 the **D-H/CAL** button for approximately 8 seconds until "CAL" is displayed. "CAL" will display for approximately 2 seconds and then the 317c 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 317c was designed with this feature to prevent improper calibration.**

