

# Field calibration for thermometers

## TPI 343 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

Headquarters:  
9615 SW Allen Blvd.  
Beaverton, OR 97005  
USA  
503-520-9197  
Fax: 503-520-1225

The 343 has the ability to be field calibrated. Accuracy of +/-1°F within the 30°F to 120°F range can be achieved by performing an ice bath calibration.

The temperature of an ice bath is approximately 32°F (0°C). 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.

#### 1. Step-by-Step Procedures

1. Connect both temperature probes to the 343.
2. Press and hold down the **MIN/MAX** and **HOLD** buttons and turn the 343 on. CALF will be displayed and the 343 will enter calibration mode and begin cycling between T1 and T2.
3. Insert the probes into the ice bath and allow the readings to stabilize.

Once the reading on both inputs has stabilized, press the **HOLD** button. SAVE will be displayed and calibration is complete.

