Pocket Digital Thermometers 09.10

Pocket Digital Thermometers Product Sheet

Test the TPI advantage





310C FEATURE

Reverse LCD to gain best viewing angle Insert small coin into notch and gently pry while turning head to new 180° viewing position. Shielded wires keep head and stem from separating. Head easily snaps back into original position.

APPLICATIONS HVACR

- Ambient Air
- Calibrate Thermostats
- Compressor Heads
- Registers **FOOD**
- Grill & Surface **Temperatures**
- Serving Temperatures **ELECTRICAL**
- Motor Temperatures
- Transformer **Temperatures**

Turn over for technical information and accessory part numbers.

The **Value**

Convenient Affordable Accurate

IP ratings for TPI Pocket Digital Thermometers are on the back page



- 310C shown
- Reversible head for best viewing
- · Easy-to-read LCD
- · Data Hold for hard to reach areas
- · Auto power off



- Quick response
- Easy insertion into "Pete's" plugs with smallest diameter (3.1 mm)
- · Data Hold for hard to reach areas
- Auto power off
- 323 Chisel-Tip
- 326 Needle-Tip
- 329 Contact-Tip (no sheath)
- 330C Chisel-Tip

TPI 306C

FEATURES

- · Compact and convenient
- Easy-to-read, large LCD
- · Auto power off
- · Data hold for hard to reach areas
- A306 protective rubber boot offers protection from drops



- 315C shown
- Rugged design withstands a 10' drop
- Magnetic clip perfect for air duct applications
- Waterproof
- · Auto power off
- · Low battery indicator
- 3.1mm diameter stem for "Pete's" plug
- 316C same as the 315C but no Magnetic clips
- 317C* with air tip
 - 318* with chisel tip
 - 319* with contact tip
 - 320C small diameter (1.6mm) Penetration-Tip

*Thermometer body slightly different from picture.

All "C" version thermometers feature Auto Field Calibration. to +/- 2 F accuracy in less than 10 seconds in an ice water bath.

Probe Penetration Chisel **Contact** Air **Tips** Need chisel tip for surface Measures three times faster Use for immersion and air: Samples air temperatures air response time will be temperatures. Penetration three times faster than than chisel tip. and/or air tips will not give an penetration or contact tips. slower than if using an accurate surface reading. actual air probe.



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TECHNICAL SPECIFICATIONS AND ACCESSORIES

- Digital Multimeters
- Clamp Meters
- · Hand-held Oscilloscopes
- · Refrigerant & Combustible Gas **Leak Detectors**
- Temperature **Testers**
- BNC Coax Cable Connectors
- Test Leads
- Accessories

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FEATURES	306C	310C	312C	315C	316C	317C	318	319	320C	323	326	329	330C
* IP rating	63	61	67	67	67	61	65	65	67	67	67	65	67
Tip Type	penetration	penetration	penetration	penetration	penetration	air	chisel	contact	needle	chisel	needle	contact	chisel
Tip Diameter at Sensor	0.15"	0.15"	0.12"	0.115"	0.115"	0.08	0.12"	0.24"	0.06"	0.12"	0.06	0.24"	0.12"
	(3.8mm)	(3.8mm)	(3.1mm)	(2.9mm)	(2.9mm)	(1.9mm)	(3.1mm)	(6mm)	(1.6mm)	(3.1mm)	(1.6mm)	(6mm)	(3.1mm)
Stem Length	5"	5"	5"	2.8"	2.8"	2.8"	2.8"	2.8"	2.8"	4.9"	4.9"	4.9"	4.9"
	(127mm)	(127mm)	(127mm)	(71mm)	(71mm)	(71mm)	(71mm)	(71mm)	(71mm)	(125mm)	(125mm)	(125mm)	(125mm)
Field Calibration	•	•	•	•	•	•			•				•
Data Hold	•	•	•	•	•	•	•	•	•	•	•	•	•
°C/°F Switchable			•	•	•	•	•	•	•	•	•	•	•
Range													
Min. Temp°F	-40°F	-58°F	-58°F	-58°F	-58°F	-58°F	-58°F	-58°F	-58°F	-58°F	-58°F	-58°F	-58°F
Min. Temp°C		-50°C	-50°C	-50°C	-50°C	-50°C	-50°C	-50°C	-50°C	-50°C	-50°C	-50°C	-50°C
Max. Temp°F	300°F	300°F	300°F	300°F	300°F	300°F	300°F	300°F	300°F	300°F	300°F	550°F	550°F
Max. Temp°C		150°C	150°C	150°C	150°C	150°C	150°C	150°C	150°C	150°C	150°C	288°C	288°C
Accuracy													
°F	1%	±2°F	±2°F	±2°F	±2°F	±2°F	±2°F	±2°F	±1°F (32 to 158°F) ±2°F (<32 and >158)	±2°F	±2°F	±2°F	±2°F
°C		±1°C	±1°C	±1°C	±1°C	±1°C	±1°C	±1°C	± 0.5°C (0 to 70°C) ± 1°C (<0 and >70°C)	±1°C	±1°C	±1°C	±1°C
Resolution	0.1°C	0.1°F/C	0.1°F/C	0.1°F/C	0.1°F/C	0.1°F/C	0.1°F/C	0.1°F/C	0.1°F/C	0.1°F/C	0.1°F/C	0.1°F/C	0.1°F/C
Auto Off	•	•	•	•	•	•	•	•	•	•	•	•	•
Sample Time	1.5sec	1.5sec	1.5sec	1.5sec	1.5sec	1.5sec	1.5sec	1.5sec	1.5sec	1.5sec	1.5sec	1.5sec	1.5sec
Battery				All TPI	Digital Pocket	Thermomete	rs use an LR	44 battery					
Centigrade versions	306CX												

Ingress Protection (IP) ratings are developed by the European Committee for Electro Technical Standardization and specify the environmental protection an enclosure provides Definitions for the IP ratings TPI products carry are:

- IP61 Totally protected against dust and against vertically falling drops of water e.g. condensation
- IP63 Totally protected against dust and against direct sprays of water up to 60° from the vertical.
- Totally protected against dust and against low pressure jets of water from all directions; limited ingress.
- IP67 Totally protected against dust and protected against the effect of immersion between 15cm (6") and 1m (39").

How do I check calibration of my pocket thermometer?

ice and water, swirl the water around and temperature should read close to 32°F.

Does the whole stem need to be immersed to get an accurate reading?

Place thermometer in a solution of crushed. The sensor is in the tip of the probe and needs to be 1/2 inch into whatever you are TPI pocket digital thermometers. measuring.

What battery does my pocket thermometer use?

The LR44 button battery is used in

Auto field calibrate in ice water to achieve +/- 2°F accuracy



Easy to follow procedure:

- 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 C series thermometer into the ice bath making sure at least one inch of the tip is immersed. Allow the reading on the thermometer to stabilize.



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 C series thermometer will return to normal operation. Calibration is complete.