



# 380 / 381 / 383 / 384 Non-Contact Thermometer

## APPLICATIONS

### HVAC/R:

Compressor heads, vents, insulation, leaks around cooler or freezer doors, steam traps, registers

### Food:

Grill & surface temperatures, holding cabinets, serving temperatures, storage temperatures

### Electrical:

Cables, circuit breakers, connections, machinery, motors, transformers

Turn over for technical information and accessory part numbers.

The Value Leader™

Measure Hard-to-reach, sensitive, or large moving target areas.



380 • 381 • 383



High Temperature Model 384

Measure Hard-to-reach, sensitive, or large moving target areas. Use the 380, 381, and 383 to measure surface temperature and watch the LCD immediately display accurate data without the use of a probe.

- Easy to use single button operation
- 0.1 resolution for best reading (380/381)
- Last reading hold
- Soft holster pouch included
- 8:1 distance to spot ratio
- Large, easy to read display
- °C and °F selectable
- 9V battery included
- Temperature range:

380/381: -4°F to 572°F  
(-20°C to 300°C)

383: -31°F to 999°F  
(-35°C to 560°C)

384: -4°F to 1,832°F  
(-20°C to 1,000°C)

Model 380 (no laser) Model 381 (with laser)  
Model 383 (with laser) Model 384 (with laser)



# 380 / 381 / 383 / 384 Non-Contact Thermometer

## SPECIFICATIONS

Temperature Range (380/381):	-20°C ~ 300°C (-4°F ~ 572°F)
(383):	-35°C ~ 560°C (-31°F ~ 999°F)
(384):	-20°C ~ 1,000°C (-4°F ~ 1,832°F)
Accuracy	±2% or ±2°C or ±3°F whichever is greater
Repeatability	±2% of reading, or ±2°C, whichever is greater
Response Time	500 m Second
Spectral Response	7µm ~ 14µm
Emmissivity : Fixed	0.95
Distance to Spot Size	8:1
Laser Sighting	380: no laser 381: with laser
°C/°F Select	Yes
Display	4 digits
Display Resolution (380/381):	0.1
(383):	-35°C ~ 299°C : 0.1°C (0.1°F) 300°C ~ 560°C : 1°C (1°F)
Display Hold	Last reading display for 7 sec.
Low Battery Detection	Yes
Back Light	Yes
Operating Temperature	0°C ~ 50°C
Storage Temperature	-25°C ~ 70°C without battery
Relative Humidity	10% ~ 95%
Weight	7oz (200g)
Dimension	155mm x 127mm x 35mm
Power	9V Alkaline or NiCd battery

### TECHNICAL SPECIFICATIONS AND ACCESSORIES

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

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To learn about the entire line of TPI products visit:

[www.tpi-thevalueleader.com](http://www.tpi-thevalueleader.com)

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## FAQ

### What does “distance to spot ratio” mean?

The laser spot needs to be showing inside the target area. An 8:1 “distance to spot ratio” means you are measuring a 1” diameter area at a distance of 8”.

### How far can I measure?

Distance is unlimited. The size of the target area sets the limit on distance for accurate measurements. Example: If the area you wish to measure is 1 foot in diameter, then you will need to be within 8 feet to record an accurate temperature.

### What is the smallest target I can read?

Approximately one-half inch in diameter.

### What is emissivity?

This is a ratio of an object’s infrared emission compared to a theoretical black body considered 1. Emissivity is always less than 1. Adjustable emissivity allows your non-contact thermometer to be adjusted to the surface you are checking to make readings more accurate.