



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

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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.

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