



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# 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.