



# 381a Combo Non-Contact / Contact Thermometer

## Features

- Non-contact  
-4 to 572°F
- Contact -146 to 2,192°F depending upon optional temperature probe
- Temperature compensated
- Single button, last reading hold function, °F/°C switchable

## Applications

### HVACR

- Compressor heads
- Vents
- Hot and cold areas in insulation
- Leaks around cooler or freezer doors
- Leaks around windows
- Steam traps
- Registers

### Electrical

- Cables
- Circuit breakers
- Connections
- Machinery
- Motors
- Transformers

### Food

- Grill & surface temperatures
- Holding cabinets
- Serving temperatures
- Storage temperatures

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



- Repeatable, 0.1° resolution readings ensure tests are consistently correct.
- Temperature compensated for accurate readings.
- Don't have to hit a hold button holds last reading automatically.
- Easy-to-use one button operation you can't lock up chip by pressing multiple buttons at one time and therefore don't have to disconnect the battery to reboot the chip.
- °C and °F selectable
- 9 to 1 D:S

## 381a Technical Data

Distance to Spot Ratio	9 : 1
Temperature Range	Non-contact: -4° to 572°F (-20° to 300°C) Contact:* -148° to 2192°F (-100° to 1200°C)
IR Accuracy @ 23°C and 0.95 emissivity	± 5°F (3°C) below 32°F (0°C) ± 2% of rdg or ± 3.5°F (2°C) whichever is greater at >32°F (0°C)
Contact Accuracy	+(0.5% of reading + 3.5°F (2°C))
Emissivity	0.95
Laser Sighting	Output <1mW, Wavelength 645-660nm, Class II Laser
°F or °C	Selectable (slide switch in handle)
Contact or Non-contact	Selectable (slide switch in handle)
Display Hold	Yes
Response Time	500 millisecond
Spectral Response	7 - 14 um
Operating Temperature	32° to 120°F (0° to 50°C)
Battery Type	9 Volt

\*Overall K-Type range shown. Actual range is dependent on the temperature range of the probe selected.

## FREE GK11M K-type thermocouple with sub-mini input jack Included

**GK11M:** General purpose Fiberglass insulated beaded tip probe

Exposed junction for fast response in food and non-food liquid, air and surface applications

**Diameter:** 24 gauge  
**Lead Length:** 48" (1.2M)  
**Temp Range:** -40° to 950°F (-40° to 510°C)





## 381a Combo Non-Contact / Contact Thermometer

Backlit display

Laser sighting

**IR/K:** The selector switch is located inside the battery compartment in the handle. Simply swing open the two piece handle and position the slide switch. Set to IR for non-contact measurements or set to K for contact measurements. When set to K, a K-type probe must be connected to the K-type connector located at the bottom right side of the handle. If a probe is not connected the thermometer will display "open" when the trigger is pulled.

**TRIGGER:** Press and hold the trigger button on the 381a. The thermometer will power up and the laser will be visible (unless in contact "K" mode). After releasing the trigger, the thermometer will hold the last reading then automatically turn off after 10 seconds. For extended measurement time simply hold the trigger on and the thermometer will stay in scan mode.

**°F/°C:** The selector switch is located inside the battery compartment in the handle. Simply swing open the two piece handle and position the slide switch.

K-type thermocouple sub-mini input jack

