

IR THERMOMETER PRO®

CP7876 - [Infrared Thermometer with Laser Pointer](#)

Infrared thermometers do everything from verifying the temperature in your AC system in the car or home to helping electricians to find an overcharge in electrical systems. Recent advances in optics make this technology more accurate and cost-effective.

Aim the IR Thermometer PRO at the target, press a button, and read the temperature display. The device has an optical lens that collects the radiated infrared energy from the object and focuses it on the detector. The detector then converts the energy into an electrical signal that's amplified and displayed as a temperature reading. An infrared thermometer measures temperature by sensing the magnitude of radiated energy at infrared frequencies. Using this data and the actual temperature of the detector, the thermometer calculates the temperature of the surface that emitted the energy.



Features and Functions:

- S.O.C. (System-On-Chip) Technology – Complete IR design incorporated on a single chip, creating compact and lightweight design
- Innovative optical lens – high accuracy measurements over wide temperature ranges. 10:1 distance to spot (D:S) ratio
- Automatic data hold
- Laser pointer – simply point at desired target and press the trigger for temperature reading
- Backlit LCD displays both Fahrenheit or Celcius
- Always get maximum value
- Visual low battery indicator; two "AAA" batteries included
- Includes belt holster

Typical Applications:

HVAC/R



Automotive



Electrical



Industrial



General/Home



	Qty	Weight	Dimensions	Barcode/UPC
CP7876 UNIT	1	.5 lbs	10.5"H x 6.5"W x 3"D	0 21467 85158 5
CP7876 CASE PACK	4	2.2 lbs.	10.75"H x 6.75"W x 12.25"D	200 21467 851589

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Automotive Applications:

- Detect overheating electrical components, connectors & wiring harness
- Pinpoint radiator core restrictions
- Temperature sensors
- Catalytic converters
- Exhaust systems
- Tire tread temperature
- Battery temperature
- Oil temperature
- Brake temperature

Electrical Applications:

- Check temperature of high voltage equipment and transformers from a safe distance
- Detect heating of problem fuses, wires, insulators, connectors, splices, switches, neutrals
- Overload motors due to possible harmonic currents

HVAC/R Applications:

- Furnace exteriors, steam traps, heat exchangers
- Ambient temperature
- Outlet air
- Inlet air
- Refrigeration equipment, freezers and display cases
- AC condenser
- Max temp look for blockages
- Chiller input/output CT
- Average over condenser coil for energy audit

Industrial Applications:

- Rotating motors and other machinery
- Motor starter relay contacts and overloads
- Bearings
- Energy surveys
- Boiler operations and steam systems
- Performance verification of machinery and equipment
- Food processing



Technical Specifications:

Temperature Range	-58 to +932°F (-50 to +500°C)
Accuracy:	±2% of reading or 4°F (2°C) whichever is greater
Emitted Infrared Energy	0.95 fixed
Spectral Response	5 ~ 14µm
Distance to Spot Ratio	10:1