



# IR-450 Pocket Infrared Thermometer

## 3-in-1 Infrared Thermometer, Laser Pointer, and Flashlight

A must have tool for everyday applications, the Amprobe 3-in-1 Pocket Infrared Thermometer, Laser Pointer, and LED Flashlight offers a uniquely small and convenient form factor with professional 8:1 distance to spot ratio, a high-quality laser pointer and LED flashlight. Much more portable than traditional infrared thermometers, the IR-450 can be readily available in your pocket for quick diagnostic checks in a wide variety of applications including: HVAC/R, fire safety and protection, industrial maintenance, automotive and quality control.

- IR pocket thermometer with 8:1 distance to spot ratio
- Selectable °F / °C
- Holds temperature reading for 10 seconds
- Bright laser pointer
- Built-in LED flashlight to illuminate dark areas



## IR-450 DETAILED SPECIFICATIONS

| Specifications                | Range   |
|-------------------------------|---|
| Distance to Spot (D:S)        | 8:1 (calculated at 80% energy)  |
| Temperature Range             | -30°C to 500°C (-22°F to 932°F)   |
| Accuracy at 23°C ±2°C, <80%RH | -30°C to 0°C (-22°F to 32°F): ±2°C (±4°F)<br>1°C to 10°C (34°F to 50°F): ±1.5°C (±3°F)<br>11°C to 40°C (52°F to 104°F): ±1°C (±2°F)<br>41°C to 500°C (106°F to 932°F): ±1.5°C (±3°F) or ±1.5% of reading, whichever is greater. |
| Best Accuracy                 | ±2°F / ± 1°C  |
| Best Display Resolution       | 0.5°F / 0.2°C   |
| Response Time                 | 500 ms  |
| Emissivity                    | 0.95  |
| Laser Wavelength              | 630 nm to 670 nm  |
| Spectral Response             | 6.5 µm to 18 µm   |
| Repeatability                 | ±1°C or ±0.5% of reading, whichever is greater.   |
| Display Hold                  | 10 seconds  |
| Operating Altitude            | Up to 2000 meters   |
| Battery                       | One 1.5VAAA battery   |
| Battery Life                  | 20 hours (Alkaline typically)   |
| Storage Temperature           | -40°F to 140°F (-20°C to 60°C) (without battery) ≤ 85% RH   |
| Dimensions (L x W x H)        | 100 x 20 x 29mm (3.94 x 0.79 x 1.14in)  |
| Weight                        | Approximately 50g (0.11lb)  |
| Safety Compliance             | EN 61010-1, EN 60825-1  |
| EMC Compliance                | EN 61326-1  |
| Certification                 | CE  |
| Laser Safety Info             | 100% FDA Compliant  |
| Laser Safety Class            | Class 2   |

For more detailed specifications see instruction manual.

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