

# INTRINSICALLY SAFE INFRARED THERMOMETER

## Model- IRL-7Ex

Intrinsically safe Infrared Thermometer is a professional grade non-contact high-precision infrared temperature detection instrument, which can quickly and accurately determine the surface temperature of the target by measuring the infrared energy radiated by the target surface. It has the characteristics of ruggedness, small volume, and high precision, dustproof, waterproof and easy to use.

The thermometer is mainly suitable for non-contact rapid measurement of the temperature of the object surface in the working environment with flammable, explosive and combustible gas mixture.

### SPECIAL FEATURES :

- Ex ib I Mb (Class1).
- Mines, Oil, Gas Environment.
- High / Low Temperature Alarm Setup
- Max / Min / Avg / Dif Function.
- Single laser LCD display
- Backlight Function
- Data Storage.
- Switchable Celsius and Fahrenheit
- Low battery Indication
- Safety Certification

Ex ib I Mb  
(Class1)



Preliminary Data

### GENERAL SPECIFICATIONS :

- **Infrared Temperature Range:** -32°C~ 700°C
- **Infrared Accuracy:** -32 < T ≤ 0 (± 2°C); 0C T ≤ 100 (± 1.5°C);  
100C T ≤ 700 (± 2%) of the true value
- **Resolution:** 0.1°C (0.1°F)
- **Display Size:** 1.5 inch
- **Infrared Spectral Response :** 8μm to 14μm
- **Infrared Response Time:** 250ms (95% of reading)
- **Distance to Spot Ratio:** 20:1
- **Laser Sighting:** Single laser
- **Operating Temperature Range:** 0°C~ 40°C  
Humidity : <90% (non-condensing).
- **Emissivity Adjustable:** 0.01 to 1.00
- **Power Supply:** Standard single 9V Battery.
- **Dimension:** Approx. 180(H) x 130(W) x 53(D)mm
- **Weight:** Approx. 300gm. (including battery)
- **Accessories:** User Manual, Battery, Screw Driver & Carrying case.

All Specifications are subject to change without prior notice.