

INTRODUCTION

The Metravi MT-1 ECO is a handy, compact, lightweight, high accuracy industrial Infrared Thermometer, used for non-contact temperature measurement in cases where the equipment or material is difficult to reach or is dangerous to do contact measurements.

FEATURES

- Precise non-contact measurements
- Built-in Laser Pointer
- User selectable units in °C or °F
- MAX/MIN temperature display
- Trigger Lock
- Automatic Data Hold
- Auto Power Off
- Display Resolution 0.1°C/F
- 1 inch area, can be measured from 8 inches away
- Backlit LCD display

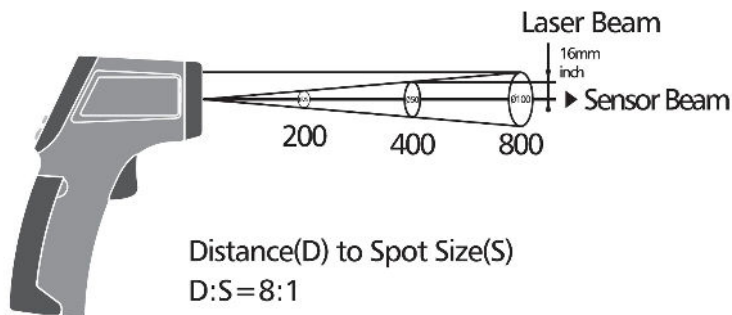
APPLICATIONS

- Food preparation
- Safety & Fire inspections
- Plastic moulding
- Asphalt
- Marine industry
- Screen printing
- Measure Ink & Dryer temperature
- Diesel & Fleet maintenance

FIELD OF VIEW

The MT-1 ECO has a FoV of 8:1, meaning that if the infrared thermometer is placed 8 inches from the target, the diameter of the object must be at least 1 inch.

Other distances should be as shown in the diagram on the right. Please refer to the chart printed on the meter itself for more information.



*Technical Specifications & Appearance are subject to change without prior notice

TECHNICAL SPECIFICATIONS

Measuring Range	: -50°C to 550°C / -58°F to 1022°F
Resolution	: 0.1°C/F
Accuracy	: $\pm 4^{\circ}\text{C}$ / $\pm 7^{\circ}\text{F}$ (-50 to 0°C / -58 to 32°F) $\pm 2\%$ of reading or $\pm 2^{\circ}\text{C}/\pm 4^{\circ}\text{F}$ (0 to 550°C / 32 to 1022°F)
Response Time	: Less than 1 second
Over Range Indication	: Yes, LCD shows "-----"
Polarity	: Automatic (no indication for positive, minus sign for negative)
Emissivity	: 0.95 fixed value
Field of View (FoV)	: Distance:Spot = 8:1 ratio
Diode Laser	: Output <1mW, Wavelength 670-670nm, Class II (2) laser product
Spectral Response	: 6 - 14 μm
Power Off	: Auto Power-off after 8 secs. (approx.) of non-operation
Operating Environment	: 0 to 50°C / 32 to 122°F ; 10% to 90%RH
Storage Environment	: -20 to 60°C / -4 to 140°F ; <80%RH
Power Supply Weight	: 9V Alkaline Battery
Dimensions	: 180gms
Accessories	: 82 x 41.5 x 60 mm : Carrying Case, User Manual, Battery

NOTE: Accuracy is given at 18°C to 28°C and less than 80% RH. Please ensure that the target is larger than the unit spot size. The smaller the target, the closer you should be to it. When accuracy is critical, ensure that the target is at least twice as large as the spot size.



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