

INTRODUCTION

The Metravi MT-14 offers easy, non-contact, infrared temperature measurements. The built-in laser pointer increases target accuracy, while the backlit LCD display and the handy push buttons combine for convenient and ergonomic operations. Type-K thermocouple input function allows for contact temperature measurements too.

FEATURES

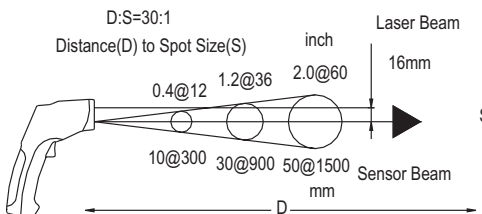
- Precise non-contact temperature measurement
- Type K temperature Measurement
- Unique flat surface, modern housing design
- Built-in laser pointer
- Automatic Data Hold
- Automatic Power Off
- °C /°F switch
- Emissivity Digitally adjustable from 0.10 to 1.0
- MAX, MIN, DIF, AVG record
- Data logger (LOG) Records data within the instrument
- LCD with Backlight
- Automatic range selection
- Resolution 0.1°C (0.1°F)
- Trigger lock facility for hands free operation
- High and Low alarm
- Obtain Emissivity of unknown substances
- **Provides analogue output of 1mV/°C for recording and control panel action**
- Battery Cum 230V AC 50Hz operated.
- Complete with Tripod Stand, 230V AC Adaptor, Battery, Instruction manual and Hard Carrying Case.

WIDE RANGE APPLICATION:

Food preparation, Safety and Fire inspectors, Plastic molding, Asphalt, Marine and Screen printing, measure ink and Dryer temperature, HVAC/R, Diesel and Fleet maintenance.

Distance & Spot Size

As the distance (D) from the object increases, the spot size (S) of the area measured by the unit becomes larger. The relationship between distance and spot size for each unit is listed below. The focal point for each unit is 914mm (36"). The spot sizes indicate 90% encircled energy.



SPECIFICATIONS

TK Measurement

Range	-50 to 1370 °C (-58 to 2498 °F)	
Resolution	-50 to 1370 °C	0.1 °C
	-58 to 1999 °F	0.1 °F
	2000 to 2498 °F	1 °F
Accuracy	-50 to 1000 °C	± 1.5% of reading + 3 °C (± 5 °F)
	1000 to 1370 °C	± 1.5% of reading + 2 °C (± 3.6 °F)

IR Measurement

Temperature range	-50 to 1300°C (-58 to 2372°F)	
D: S	30:1	
Resolution	0.1 °C (0.1 °F)	
Accuracy	-50 to -20 °C (-58 to -4 °F):	± 5 °C (± 9 °F)
	-20 to 200 °C (-4 to 392 °F):	± 1.5% of reading + 2 °C (± 3.6 °F)
	200 to 538 °C (392 to 1000 °F):	± 2.0% of reading + 2 °C (± 3.6 °F)
	538 to 1300°C (1000 to 2372°F):	± 3.5% of reading ± 5 °C (± 9 °F)

Response time	less than 1 second
Spectral response	8~14um
Emissivity	Digitally adjustable from 0.10 to 1.0
Over range indication	LCD will show "-OL", "OL"
Polarity	Automatic (no indication for positive polarity); Minus (-) sign for negative polarity
Diode laser	output <1mW
Wavelength	630~670nm,
Class 2(II) laser product	
Operating temp.	0 to 50 °C (32 to 122 °F)
Storage temp.	-20 to 60 °C (-4 to 140 °F)
Relative humidity	10% ~ 90% RH operating, <80% RH storage
Power supply	9V battery, NEDA 1604A or IEC 6LR61, or equivalent
Weight	290g (10.2 oz.)
Size	100 x 56 x 230mm (3.9 x 2.2 x 9.0")
Safety	"CE" Comply with EMC

IMPORTANT NOTES:

- Accuracy given is at RH <80%
- The Metravi MT-14 Infrared Thermometer DOES NOT come with rechargeable battery.
- The Power Supply is by either installing a 9V Alkaline Battery OR removing the battery and using Mains by connecting the instrument to the Battery Eliminator

*Technical Specifications are subject to change without prior notice