



MT-12 ECO / MT-17 ECO / MT-18 ECO INDUSTRIAL NON-CONTACT INFRARED THERMOMETERS

INTRODUCTION

The **Metravi MT ECO series of Industrial Non-Contact Infrared Thermometers** are engineered for high-precision temperature measurement in extreme conditions.

Designed for industrial and professional use, these advanced thermometers offer **non-contact temperature measurement capabilities up to 1200°C, 1600°C, and 2000°C**, respectively, ensuring safe and accurate readings in high-temperature environments.

Featuring **dual laser pointers** for precise targeting and an impressive **50:1 distance-to-spot ratio**, these thermometers allow users to measure temperatures from a safe distance.

The **user-settable emissivity** ensures accurate readings across different surfaces, while the **fast response time of less than 5 seconds** delivers quick and reliable results.

The **clear and reverse colour display** enhances visibility in various lighting conditions, and built-in **High/Low Temperature Alarms** help monitor critical temperature thresholds.

Additional features include **MIN/MAX/AVG/DIF** modes for comprehensive data analysis and a **K-type thermocouple input** for **contact temperature measurements up to 500°C**, adding to its versatility.

For ease of use, the series comes with **Auto Shutdown, Low Battery Indication, °C/°F Selection, and Data Hold** functions.

Built for durability and precision, the **Metravi MT ECO series** are the ultimate solutions for professionals who need reliable high-temperature measurement tools in demanding environments.

APPLICATIONS

Ideal for a wide range of applications, these thermometers are extensively used in

- HVAC
- Home Inspections
- Food Grilling
- Pizza Ovens
- High-end Broilers
- Smelting
- Furnaces
- Kilns
- Forges
- Foundries
- Aluminium Alloy Processing
- Ceramic Stoves
- Metal Castings
- and more...



*Images and Specifications are subject to change without prior notice



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INDUSTRIAL NON-CONTACT INFRARED THERMOMETERS

TECHNICAL SPECIFICATIONS

	MT-12 ECO	MT-17 ECO	MT-18 ECO
Display	Reverse Display Colour LCD		
Infrared Measurement Range	-40°C ~ 1200°C (-40°F ~ 2192°F)	-40°C ~ 1600°C (-40°F ~ 2912°F)	-40°C ~ 2000°C (-40°F ~ 3632°F)
Accuracy	-40°C ~ 0°C : $\pm(3^{\circ}\text{C} / 6^{\circ}\text{F})$ 0°C ~ 800°C : $\pm(1.5\% + 2^{\circ})$ 800°C ~ 1200°C : $\pm(3\%)$ 1200°C ~ 2000°C : $\pm(5\%)$		
K-type Measurement Range	-10°C ~ 500°C (14°F ~ 932°F)		
K-type Accuracy	$\pm(1.5\% + 2^{\circ}\text{C}/4^{\circ}\text{F})$		
Distance to Sight Ratio	50:1		
Spectral Response	8 ~ 14 μm		
Resolution	0.1°C/ 0.1°F		
Emissivity	User-settable, 0.10 ~ 1.00		
Laser Type	Dual Laser, <1mW /620-690nm, Class II		
Sampling Time	< 0.5 secs		
Automatic Shutdown	About 35 seconds after non-operation		
Power Supply	2 x 1.5V AA Alkaline Batteries		
Operational Environment	0 ~ 50°C ; 10% ~ 90% RH		
Storage Temperature	-20°C ~ 60°C		
Dimensions	180 x 120 x 60 mm		
Weight	Approx. 265g without battery		
Accessories	Carrying Case, K-type Thermocouple, User Manual		



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