



IR Non-Contact Portable Pyrometers



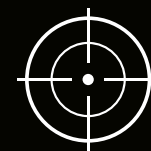
The ETS IR Non-Contact Portable Pyrometers are handheld infrared thermometers designed to measure temperature from a distance without physically touching the object. These devices are ideal for monitoring high-temperature surfaces such as molten metals, hot machinery, and inaccessible or hazardous locations. They offer quick, accurate, and repeatable readings, making them essential for industrial, metallurgical, and manufacturing applications.



KEY FEATURES



Non-Contact



Laser Targeting



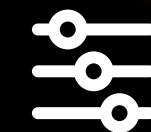
Infrared Sensing



Fast Response



Portable Design



Adjustable Emissivity



Digital Display



Rugged Build





IR Non-Contact Portable Pyrometers



SPECIFICATIONS

Temperature Range	-50°C to 380°C	-50°C to 550°C	-50°C to 1050°C	-60°C to 1500°C	200°C to 2400°C
Fahrenheit	58°F to 716°F	-58°F to 1022°F	-58°F to 1922°F	-58°F to 2732°F	-392°F to 4352°F
Accuracy	±1.5°C	±1.5°C	±1.5°C	±1.5°C	±1.5°C
Distance Spot Ratio	12:1	12:1	50:1	50:1	100:1
Emissivity	0.10 to 1.00	0.10 to 1.00	0.10 to 1.00	0.10 to 1.00	0.10 to 1.00
Repeatability	±1.5% or ±1.5°C	±1.5% or ±1.5°C	±1.5% or ±1.5°C	±1.5% or ±1.5°C	±1.5% or ±1.5°C
Wavelength	630nm to 670nm	630nm to 670nm	630nm to 670nm	Dual Laser pointer	Dual Laser pointer
Resolution	0.1°C/0.1°F	0.1°C/0.1°F	0.1°C/0.1°F	0.1°C/0.1°F	0.1°C/0.1°F
Spectral Response	6µm to 14µm	7µm to 14µm	8µm to 14µm	8µm to 14µm	1.1µm to 3.7µm





IR Online Non-Contact Pyrometer



[Application for Auto-Pouring System for Temperature Measurement]

The ETS IR Online Non-Contact Pyrometer is a high-precision digital two-color pyrometer with a rectangular measuring field, specifically designed for non-contact temperature measurement in molten metal applications such as foundries and steel plants. It operates by calculating the ratio of infrared energies at two different wavelength bands, significantly minimizing errors caused by dust, smoke, or vapours. Its rectangular field of view ensures accurate readings even when the molten metal is in motion within the target area.



KEY FEATURES



Rectangular Targeting



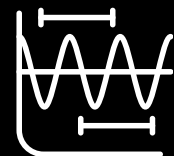
Analog Output



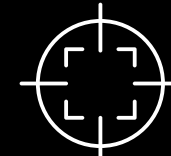
Wide Range



Spectral Precision



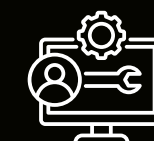
Dual Wavelength



Lens Viewfinder



Molten Compatibility



User Software



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IR Online Non-Contact Pyrometer

TECHNICAL SPECIFICATIONS



Parameter	Specification
Temperature Range (Analog sub-range adjustable)	700° to 1700°C
Spectral Range	0.7 µm to 1.15 µm
Photodetector Type	Si/Si
Distance to Spot Size Ratio	D = 166:1 (V = Vertical) V D = 33:1 (H = Horizontal)
Emissivity	0.1....1.0 adjustable (Single color mode)
Emissivity Slope (ϵ_1 / ϵ_2)	0.75...1.25 slope adjustable (Two color mode)
Response Time	20 msec adjustable upto 10 sec
Accuracy	± 0.5% of the measured value + 1°C
Repeatability	0.1% of reading in °C + 1°C
Sighting Options	Through The Lens (TL)
Analog Output	0-20mA, 4-20mA, 0-10V (User selectable)
Digital Output	USB 2.0 or RS-232/RS-485 (selectable, one active at a time)

Parameter	Specification
Operating Temp. Range	0°C to 70°C 0°C to 200°C (With water cooling jacket)
Storage Temp. Range	-20°C to 70°C
Adjustable via Software	Emissivity, response time, analog scale, peak picker, sensor mode (2-color/single), output type, °C/°F unit, communication mode, and data recording.
Power Consumption	Max 2.5 watt
Laser Power	<1 m watt
Protection Class	IP65
Housing	Stainless Steel
Isolation	Power supply, digital, and analog outputs are galvanically isolated (except USB 2.0)
Operating Humidity	10-95%, Non-Condensing Conditions
Weight & Dimensions	600g Dia= Ø 49.5 mm; Length=118mm
Power Supply	0.1°C/0.1°F

