

Compact, On-Line Infrared Non-Contact Pyrometer for Low Temperature Measurements CE 0°C to 500°C

AST TL8 series pyrometer is a digital pyrometer to provide high performance and low maintenance of non contact temperature measurement in demanding industrial environments.

AST TL8 series is provided with TTL output. The emissivity, analog output sub-range, response time can be preset ex-works or adjusted through service software. This enables the instrument to be adapted to various measuring tasks.

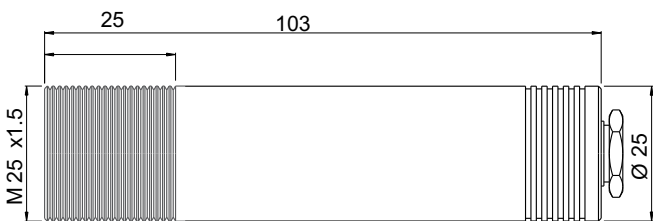
These pyrometers have solid body in stainless steel housing which provides high operation safety even in rough industrial environment.

Applications

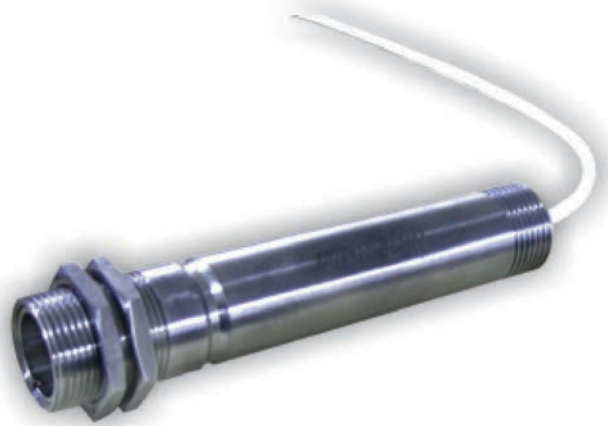
- Plastic
- Paper
- Fluids
- Rubber
- Ceramic
- Wood
- Glass
- Painted & Oxidized Surface
- Textiles

Features

- Rugged and compact
- Temperature range 0°C to 500°C
- Spot Size 15:1
- Response Time 100msec. to 10sec.
- TTL Output and service software
- Relay Output
- Analog Output 0 - 5V, TC Output type J & K; 4...20mA (Optional)
- Variety of Accessories



AST TL8



Standard Scope of Supply

AST TL8 with 3 mtr long connection cable, TTL output, Relay Output, Analog output 0 - 5V, K or J type Thermocouple output(to be specified while ordering).

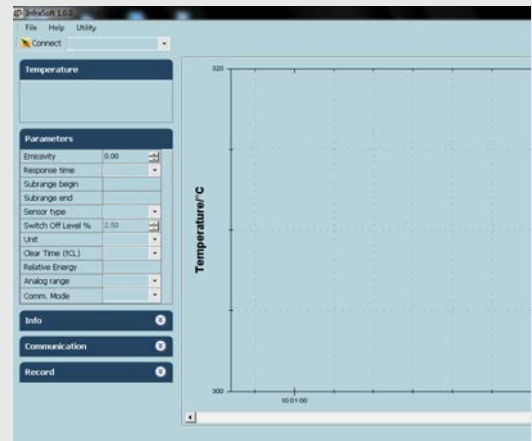
Optional

- 4 - 20mA Output
- USB Interface



USB Interface

TL8 Series is provided with TTL output. Using the USB dongle and Software pyrometer can be connected to PC for parameter setting, data logging & output selection.

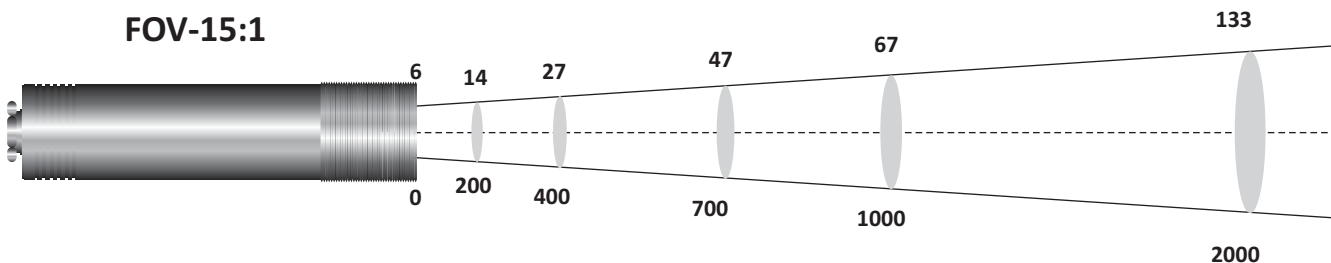


PC Software
"Infrasoft"

Technical Specification

Model	AST TL8
Measured Temperature Ranges	0°C to 500°C (Analog sub range adjustable)
Spectral Range	8 - 14 μm
Detector Type	Thermopile
Analog Output	0 - 5V, J type or K Type Thermocouple Output(to be specified while ordering), 4 - 20mA (Optional)
Digital Output	TTL Output
Emissivity ϵ	0.1 to 1.2 adjustable
Response Time	100 msec. to 10 sec. adjustable
Distance to spot size ratio	15:1
Measurement Uncertainty	$\pm 2\%$ of measured value or $\pm 3^\circ\text{C}$ whichever is greater (at $\epsilon=1$, $T_{\text{amb}}=25^\circ\text{C}$, $\tau=1\text{sec.}$)
Repeatability	$\pm 0.5\%$ of measured value or $\pm 1^\circ\text{C}$ whichever is greater(at $\epsilon=1$, $T_{\text{amb}}=25^\circ\text{C}$, $\tau=1\text{sec}$)
Resolution	0.2°C
Power	12 V to 25 V DC ($I \leq 80 \text{ mA}$)
Ambient Temperature	0 to 70°C
Storage Temperature	-20 to 70°C
Housing	Stainless Steel
Protection Class	IP65
Dimension	Dia=25mm; L=103mm; W=0.200kg

Spot Sizes



Accessories



Air purge unit
(Reference No. 8200 - 01)



Adjustable Mounting
(Reference No. 8200 - 03)



Power Supply Unit
(Reference No.: 9000-02)



USB Interface For TTL Output
(Reference No.: 9000-07)

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