

Compact, On-Line Infrared Non-Contact Pyrometer in two wire technology.  
 (€) 350°C to 2100°C

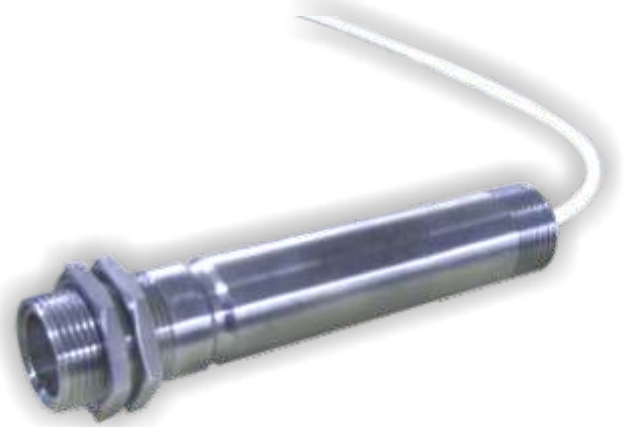
AST T2-250 /T2-450

AST T2 series pyrometers are compact two wire digital pyrometers to provide high performance and low maintenance of non contact temperature measurement in demanding industrial environments.

AST T2 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 pyrometer have solid body in stainless steel housing which provides high operation safety even in rough industrial environment. Variety of working Distances with fixed focus available for different applications.

Built in Laser targeting for precise alignment to the measuring object.



**Standard Scope of Supply**

AST T2-250/T2-450 with Laser Targeting Light 3 mtr long connection cable, 4...20mA output, TTL output.

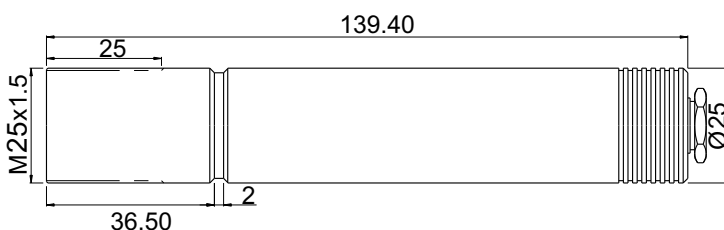
**Applications**

- Forging
- Rolling
- Annealing
- Welding
- Forging
- Sintering
- Melting
- Rolling mills
- Hardening

**Features**

- Rugged and compact
- Laser Targeting
- Wide temperature ranges (350°C to 2100°C)
- Small Spot Sizes
- Fast Response Time
- TTL Output and service software
- Variety of Accessories

**Pyrometer Drawing**



## Technical Specification

Model	AST T2-250	AST T2-450
Measured Temperature Ranges (Analog sub range adjustable)	350° - 1200°C 500° - 1500°C	600° - 1600°C 700° - 2100°C
Spectral Range, $\mu\text{m}$	1.6 $\mu\text{m}$	1 $\mu\text{m}$
Detector Type	InGaAs	Si
Analog Output	4-20 mA, Load Independent Current, Linear Temperature Output Max Load : Max 500 $\Omega$ at 24 V, Max 200 $\Omega$ at 18 V	
Digital Output	TTL Output	
Emissivity $\epsilon$	0.1 to 1.0 adjustable	
Response Time	50 msec. adjustable upto 10 sec.	
Distance to spot size ratio	100:1, 200:1	
Meas. Uncertainty (at $\epsilon=1$ , $T_{\text{amb}}=25^\circ\text{C}$ , $\tau=1\text{sec}$ )	Upto 1500°C: 0.8% of measured value +2°C Above 1500°C: 1% of measured value +1°C	
Repeatability	0.4% of measured value (at $\epsilon=1$ , $T_{\text{amb}}=25^\circ\text{C}$ , $\tau=1\text{sec}$ )	
Power	12 V to 25 V DC Stabilized (5 V to 25 V DC with USB dongle (5 to 25 V DC for Laser Targeting light ( $I \leq 30 \text{ mA}$ )))	
Sighting	Laser Targeting Light	
Ambient Temperature	0 to 70°C	
Storage Temperature	-20 to 70°C	
Housing	Stainless Steel	
Protection Class	IP65	
Weight	250 g	

## Spot Sizes

Manufactured working distance WD (mm)	Spot Size S (mm)			
	AST T2-250 350°C - 1200°C (100:1)	AST T2-250 500°C - 1500°C (200:1)	AST T2-450 600°C - 1600°C (100:1)	AST T2-450 700°C - 2100°C (200:1)
250	2.5	1.2	2.5	1.2
600	6.0	3.0	6.0	3.0
1400	14.0	7.0	14.0	7.0
Aperture(mm)	6	6	6	5

## Accessories



Air purge unit  
Reference No. 8200 - 01



Adjustable Mounting  
Reference No. 8200 - 03



Power Supply Unit  
(Reference no: 9000-02)



Temperature Indicator  
(Reference no: 9000-01)