

AST E 250/450

Highly Accurate Digital pyrometer with Extended Optical Head, Inbuilt LCD and Keypad for Parameterization

CE 250...3200°C

The **AST E 250 & AST E 450** is digital pyrometers with extended optical head and 5 core cable for non-contact temperature measurement on metals, ceramics, graphite etc between 250°C and 3200°C. The optical head is unaffected by electromagnetic interferences (e.g. induction). The pyrometer is equipped with a display (optional) which shows in measuring mode the current temperature. Additionally all parameters can be read and changed via integrated keys.

AST E 250 / E 450 are provided with USB 2 connector with cable. The pyrometer can be powered through USB port of the laptop computer. In this case no external power supply is required.

Analog output is 4...20mA (0...20mA / 0...10V / 0...5V user selectable)

Serial interface RS 485 is available as optional.



Standard Scope of supply

- AST E 250 / E 450 with LCD Display and keypad for parameterizing , Sensor head with 3 mtr cable.

Optional

- Sensor head extension cable (upto 15mtr)
- Relay interface: Two optically isolated relays, 60 VDC/ 42 VACRMS, 0,4 A
- RS 485 Interface and software for parameterizing/data logging
- USB output with PC Cable and software for parameterizing/data logging

- ❖ **Wide temperature range (250...3200°C)**
- ❖ **In built LCD**
- ❖ **Parameter can be adjusted via integrated keypad or interface.**
- ❖ **Rs485 Isolated (optional),**
- ❖ **USB 2.0**

***We Measure Temperature Accurately
even in extreme Conditions***

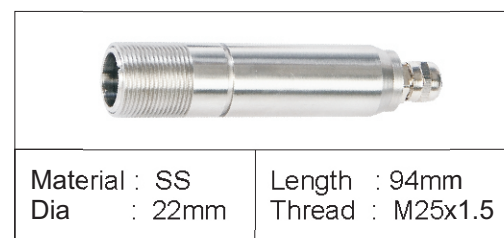
TECHNICAL SPECIFICATION

Model	AST E 250	AST E 450
Measured Temperatures Range Sub Range Adjustable	250 °C - 1300 °C 350 °C - 1800 °C	600 °C -1900°C 750 °C -3200°C
Spectral Range, μm	1.6μm	1μm
Photodetector Type	InGaAs	Si
Distance to spot size ratio	40:1	80:1
Response Time	10msec. Adjustable upto 10S	
Accuracy & Repeatability	+/-0.3% of the measured value + 1°C	
Emmissivity	0.1 1 adjustable	
Operating temperature range	Electronic and optical head 0.....70 °C	
Analog Output	4-20mA or (0-20mA / 0-10V / 0-5V) Optional	
Digital Output (Optional)	RS 485 (ISOLATED), USB 2	
Relay Output (Optional)	2 Relay output with Hysteresis	
Power Supply	24 V DC	
Resolution	0.1 K	
Storage temperature	-20 to +70 °C	
Dimensions & weight	115 x 65 x 55 (L x W x D)	
Protection class	IP 65	
Adjustable Parameters via Keypad/software	Emissivity, Analog output, Address, Response time, Peak picker, Temperature Sub Range,	

Optical Specifications

Sensor Head Type	Working Distance (mm)	FOV 80:1	FOV 40:1
		Spot Size(mm)	Spot Size(mm)
CF	100	1.3	2.5
	200	2.5	5
	300	3.8	7.5
SF	600	7.5	15
	900	11.3	22.5
	1200	15	30

Sensor Head Details



Optional Accessories

- Air purge Unit for Sensor Head
- Adjustable mounting clamp for Sensor Head
- Power supply Unit (SMPS)
- RS 485 to USB Converter
- USB Cable

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