

AST E 450C

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

CE 800-2500°C

The **AST E 450C** is a Highly Accurate two-color digital pyrometers with extended optical head and 5 core cable for non-contact temperature measurement on metals, ceramics, graphite etc between 800°C and 2500°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 450C 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)



Standard Scope of supply

- AST E 450C 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 (800...2500°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 450C
Measured Temperatures Range Sub Range Adjustable	800 °C - 2500 °C
Spectral Range, μm	0.7.....1.15 μm
Photodetector Type	Si/Si
Distance to spot size ratio	80:1
Response Time	20msec. Adjustable upto 10S
Accuracy & Repeatability	+/-0.5% of the measured value + 1°C
Emmissivity	0.1 1 adjustable
Emmissivity Slop	0.75 1.25 Slop 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, Emissivity Slop, Analog output, Address, Response time, Peak picker, Temperature Sub Range,

Optical Specifications

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

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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