

AST E250 PL / AST E450 PL is a highly accurate digital pyrometer with extended sensor head and cable for non-contact temperature measurement of metals, ceramics and graphite etc in a temperature range between 250°C and 1900°C

The sensor head is un-effected by electromagnetic interferences. The pyrometer is equipped with a display which shows the current temperature in measuring mode. Additionally all parameters can be read and changed via integrated keys.

AST E250 PL / E450 PL is provided with USB output & PC Software. The pyrometer can be powered through USB port, in this case no external power supply is required. +24V DC is required for operation of analog output 4...20mA, 0...20mA, 0... 10V (user selectable), Laser, RS-232 & RS-485 and relay output.

Technical specifications

Model	AST E250 PL	AST E450 PL
Measured Temperature Ranges (Analog sub - range adjustable)	250° - 1000°C 300° - 1300°C 350° - 1800°C	600° - 1900°C
Spectral Range, µm	1.6 µm	1 µm
Photodetector Type	InGaAs	Si
Distance to spot size ratio	20 : 1 40 : 1 80 : 1	80 : 1
Response Time	10 msec. Adjustable upto 10 sec	
Accuracy	+/- 0.3% of the measured value +1° C	
Repeatability	0.1% of reading in °C +1°C	
Emissivity	0.1....1 adjustable	
Analog output	4-20 mA, 0-20mA, 0-10 V User selectable	
Digital output	USB 2.0 RS - 485 & RS - 232 (Optional)	
Power	24V DC	
Resolution	0.1K	
Sighting	Laser	
Operating temp. range	Electronic box and Sensor head 0°C...+70°C	
Relay Output	Relay output with hysteresis 60V DC / 42V AC RMS, 0.4A	
Storage temperature	-20° +70°C	
Dimensions/Weight	112.5mm x 82.5mm x 33mm (l x w x d) / Weight = 600g	
Adjustable Parameters via Keypad/software	Emissivity, Analog output, Address, Response time, Peak picker, Analog output Sub range	

AST E250 PL / AST E450 PL

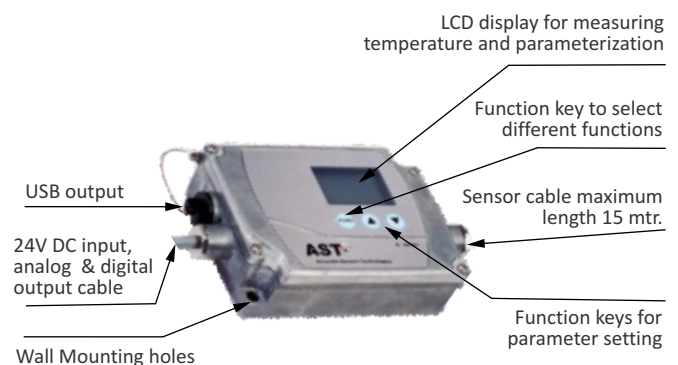


Standard Scope of Supply

AST E250 PL / E450 PL, with Laser Targeting Light, LCD Display and keypad for parameterizing, sensor head with 3 m cable, USB Output with 1mtr USB Cable, 1 Relay Output & Analog output 4...20mA, 0...20mA, 0... 10V (user selectable)

Optional

- Sensor head extension cable (upto 15 m)
- RS-232 & RS-485 interface card.



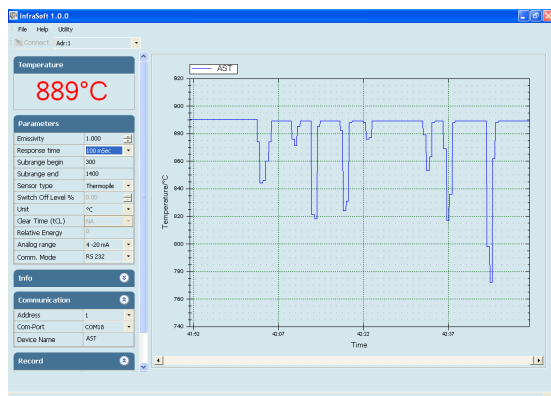
Features

- Wide temperature ranges
- In built LCD
- Laser Light for targeting
- Parameter can be adjusted via integrated keypad or software
- RS-232 & RS-485 Isolated (Optional)
- USB 2.0
- Relay output

Applications

- Induction heating
- Casting
- Annealing
- Welding
- Forging
- Sintering
- Melting
- Rolling

Software "Infrasoft"



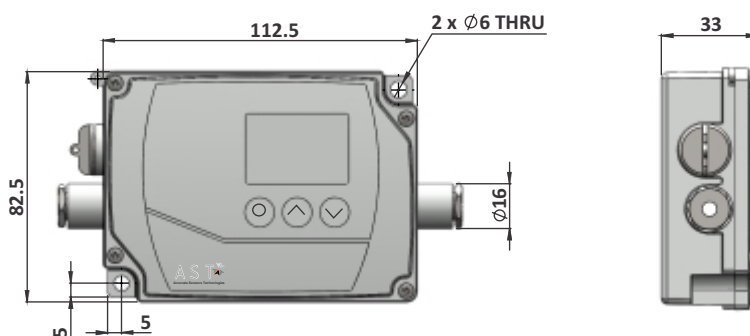
Spot Size

Manufactured Working Distance WD (mm)	Spot Size S (mm)			
	AST E250 PL 250°C - 1000°C (20:1)	AST E250 PL 300°C - 1300°C (40:1)	AST E250 PL 350°C - 1800°C (80:1)	AST E450 PL 600°C - 1900°C (80:1)
90	4.5	2.3	1.2	1.2
300	15	7.5	3.8	3.8
600	30	15	7.5	7.5
Aperture(A)	5	5	5	5

Drawings



Sensing Head



Electronics

Accessories



Water Cooling Jacket Incl. Air Purge Unit-Sensor Head (Reference No: 8000-01)



Air Purge Unit-Sensor Head (Reference No: 8200-01)



Adjustable Mounting for Sensor Head (Reference no: 8200-03)



Converter RS-232 ↔ RS-485 (Reference no: 9000-03)



Power Supply Unit (Reference no: 9000-02)



Temperature Indicator (Reference no: 9000-01)

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