

AST A250+/A450+ are digital, highly accurate pyrometers to provide high performance and low maintenance of non contact temperature measurement in demanding industrial and R&D environments. The pyrometer parameters can be selected via the key pads on the back panel. The settings are displayed on the large colour video LCD (55.5 (W) x 47.9 (H) x 3.17 ((D). In the measuring mode real time temperature and emissivity is displayed. In Pyrometers with video module real time colour video, measuring temperature and emissivity is displayed on the LCD screen. A250+ and A450+ have focusable optics for optimal match of the instrument for various applications. The pyrometers are equipped with user selectable RS232 and RS485; analog outputs 0/4....20, 0...10V. For data logging and remote parameterization PC softwawre "Infrasoft" is provided. For precise targeting a laser targeting light or through the lens sighting or Video output(optional) is

Accurate Sensors Technologies

Highly Accurate On-Line Infrared Focusable Non-Contact Pyrometers

300°C to 2500°C

AST A250+ / A450+





Applications

Preheating

provided

- > Annealing
- Tempering
- ➢ Welding
- Forging
- ➤ Hardening

- > Sintering
 - Melting
 - > Soldering
 - Rolling
 - Brazing
 - Normalizing

Features

- Built-in digital display
- Key pad for parameter setting
- > Through-lens view finder, Laser targeting light or video module
- > User selectable interface RS232 / RS485
- > User selectable analog output 0....20, 4....20 or 0...10V
- Focusable optics

Standard Scope of Supply

AST A250+ / A450+ with Laser Targeting Light or through the Lens Sighting, RS-232 & RS-485, Focusable Optics, Display and Paraterizing keys on back panel, 5 M Long Connection Cable, 1.5M Communication Cable, PC Software "Infrasoft"

PC Software "Infrasoft"



We Measure Temperature Accurately even in extreme conditions

Model	AST A250+	AST A450+			
Measured Temperature Ranges (Analog sub range adjustable)	300 - 1300°C 350 - 1800°C 450 - 2500°C	600 - 1900°C 700 - 2500°C			
Emissivity	0.11 Adjustable				
Spectral Range, µm	1.6 µm	1 µm			
Photodetector Type	InGaAs	Si			
Response Time	2 msec. Adjustable upto 10 sec				
Accuracy	±0.3% of the measured value +1° C				
Repeatability	0.1% reading in °C + 1°C				
Distance to Spot Size Ratio	100:1 (300 - 1300°C) 200:1 (350 - 1800°C) 400:1 (450 - 2500°C)	200:1 (600 - 1900°C) 400:1 (700 - 2500°C)			
Analog Output	4-20 mA or 0-20mA or 0-10 V User selectable				
Digital Output	RS-232 or RS-485 (Isolated) User Selectable				
Power	24V DC				
Sighting	Laser pilot light (PL) or through the lens sighting (TL)				
Laser Power	<1mW				
Protection class	IP 65				
Operating temperature range	0°C+70°C				
Isolation	Power supply and digital output and analog output are galvanically isolated against each other				
Storage temprature	-20°+70°C				
Operating humidity	Unlimited				
Dimensions/Weight	200 mm x 112 mm x 90 mm (L x w x H); Wight =1.5 kg.				
Adjustable Parameters via software	Response time, Peak picker, Analog out put sub-range, Emissivity, Interval of data storage, Analog output, Digital output				

Spot Sizes(Focusable from 550 - infinity(∞))

Measuring Distance(mm)	AST A250+ 300 - 1300°C	AST A250+ 350 - 1800°C	AST A250+ 450 - 2500°C	AST A450+ 600 - 1900°C	AST A450+ 700 - 2500°C
550	5.5	2.75	1.37	2.75	1.37
800	8	4	2	4	2
1000	10	5	2.5	5	2.5
2000	20	10	5	10	5
4000	40	20	10	20	10

Dimensions



*All Dimensions in mm

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