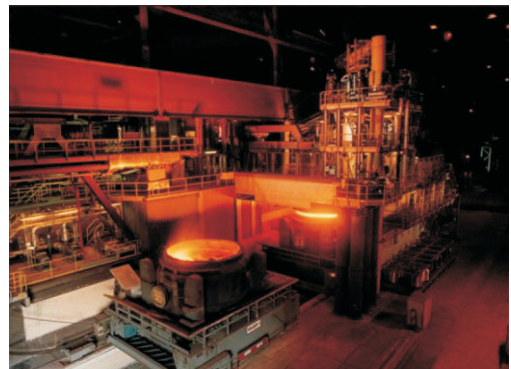


AST 250/450 FO/PL

Digital pyrometer with mono fiber optic cable

CE 300-2500°C

AST 250 FO/PL and AST 450 FO/PL are highly accurate digital pyrometers with fiber optic for non contact temperature measurement. They are specially designed for applications under rough condition. These can be used in areas with high ambient temperatures without cooling or in areas where strong electromagnetic interference can influence a correct measurement because the fiber and optical head do not contain electronics part. With the very short response time of <2ms the pyrometer can even measure fastest heating processes. The main parameters such as emissivity and response time can be set. These parameter as well as the additional parameters such as Analog output sub range, Peak Picker and address can be adjusted via PC.



- ❖ **Highly accurate 0.3 % of measured value + 1°C**
- ❖ **Wide temperature range**
- ❖ **Analog and Digital output**
- ❖ **High Optical Resolution**
- ❖ **Laser targeting light**
- ❖ **Small Spot sizes**
- ❖ **Analog output 0...20mA or 4...20mA or 0-10 V**
- ❖ **Digital interference RS232 or RS 485**
- ❖ **Peak Picker**
- ❖ **Fiber optics and optical head withstand up to 250°C**
- ❖ **Rugged mono fiber optics**



Applications

Induction heating
Welding
Casting
Forging
Annealing
Sintering
Rolling mill
Rotary kilns
Pouring stream

*We Measure Temperature Accurately
even in extreme Conditions*

TECHNICAL SPECIFICATION

Model	250 FO/PL	450 FO/PL
Measured Temperatures Range	300 °C - 1800	750 °C -2500°C
	Analog output Sub Range Adjustable	
Emissivity Range	0.1.....1.0 adjustable	
Spectral Range, μm	1.6 μm	1 μm
Photodetector Type	InGaAs	Si
Response Time	2msec. Adjustable upto 10S	
Accuracy & Repeatability	+/-0.3% of the measured value + 1°C	
Analog Output	4.....20mA or 0.20mA or 0-10V User Selectable	
Digital Output	Serial communication : RS 232 or Rs485 Isolated	
Power	24 V DC	
Operating temperature range at fiber	Max.250°C at fiber optics cable and optical head 0....70°C at pyrometer end	
Fiber Optic	2.5meter standard (available 5,10,15 meter on request)	
Sighting	Laser pilot light	
Isolation	Power supply and digital output and analog output are galvanically isolated against each other	
Operating humidity	Unlimited	
Housing	Stainless steel, IP65 Ø50mm; L=118mm;/0.6kg	
Adjustable Parameters via software	Response time, Peak picker, Average, Analog output sub range, emissivity	
Readable parameters via software	Measured temperature, temperature graph, Internal Temperature, Brightness Temperature	

	AST 250 FO/PL		AST 450 FO/PL
Optical Head	Working Distance (mm)	Spot Size(mm)	Spot Size(mm)
 Optical Head - I	120	3	1.2
	260	6.5	2.6
	700	17.5	7.0
 Optical Head - II	90	1.2	0.5
	200	2.5	1
	600	7.5	3
	4500	57	23

ACCESSORIES



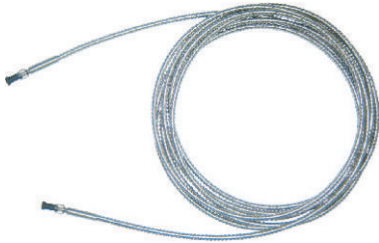
Water Cooling Jacket & Air purge unit for optical head-II
Reference No. 8000 - 01



Air purge unit for optical head-II
Reference No. 8200 - 01



Adjustable Mounting for optical head-II
Reference No. 8200 - 03



Fiber Optic Cable
Reference No. 5000 - 01 (2.5 Mtr)



Air purge unit for optical head-I
Reference No. 8200 - 02



Converter, RS 485 to RS 232
Reference No. 9000 - 03



Power supply input 110/230 AC
Output 24 V DC, 0.75Amp
Reference No. 9000 - 02



Temperature Indicator with retransmission output 4..20mA
Reference No. 9000 - 01



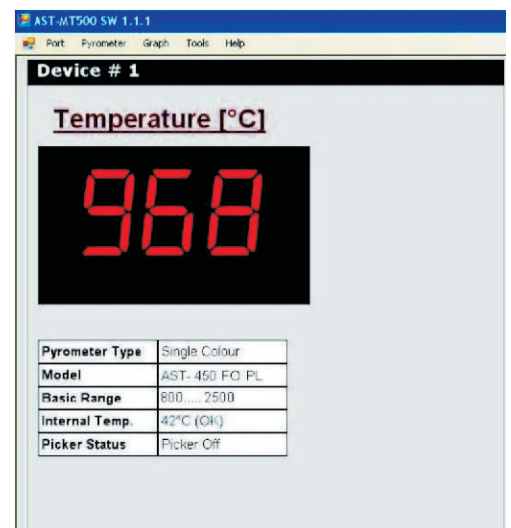
Display with Parameterizer (P-120)
Reference No. 9001 - 01



Adjustable mounting for optical head-I

Software MT 500

- ❖ Emissivity setting
- ❖ Response time setting
- ❖ Peak picker setting
- ❖ Average temperature setting
- ❖ Graphs
- ❖ Data logging



TEMPSSENS INSTRUMENTS (I) PVT. LTD.

B-188 A, Road No.-5, MIA, Madri, Udaipur Rajasthan

Ph. : +91-294-3057700, Fax : +91-294-3057750

E-mail : info@tempsens.com

Website : www.tempsens.com

TEMPSSENS
INSTRUMENTS