

## AST 450 G-2

Highly Accurate On line Infrared Non-contact Pyrometer  
With fibre optic cable for Glass Industry

CE 600.....1800° C

AST 450 G-2 is specially designed high accurate digital pyrometer which provides high performance and low maintenance of non contact temperature measurement in the Glass industry. Especially for Glass tank, fore hearth, Feeder and working end. The rugged fibre optic cable is designed to withstand high ambient temperature in Glass Industry without water cooling. AST 450 G-2 is fully digital pyrometer. The supplied software allows remote communication and data logging through RS 232. Emissivity, sub range or response time and peak picker can be preset ex works or adjusted through software. This enables the instruments to be adapted to various measuring tasks. The pyrometers have solid body in Stainless Steel housing which provide high operation safety even in rough industrial environment.



- ❖ Highly accurate 0.3% of measured value
- ❖ Wide temperature range 600.....1800°C
- ❖ Fully digital. Analog and digital output
- ❖ High optical resolution
- ❖ Fast response time : 250mS Adjustable upto10S
- ❖ Very good stability
- ❖ User friendly software
- ❖ Rugged Stainless Steel Housing
- ❖ Variety of accessories



## Applications

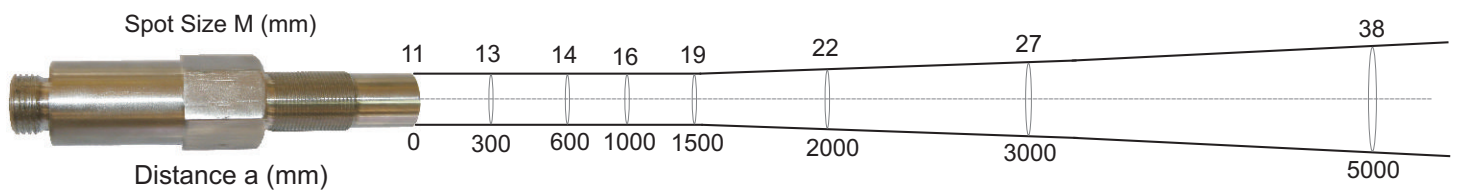
Furnace Crown  
Furnace sidewall  
Fore hearth  
Feeder  
Working end

*We Measure Temperature Accurately  
even in extreme Conditions*

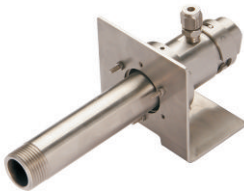
# TECHNICAL SPECIFICATION

<b>Model</b>	<b>AST 450 G-2</b>
Measured Temperatures Range	600°.....1800 °C
Emissivity Range	0.05.....1 adjustable via DIP switch and USB
Spectral Range, $\mu\text{m}$	1 $\mu\text{m}$
Photodetector Type	Silicon
Response Time	250 msec. Adjustable upto 10S
Accuracy and Repeatability	+/-0.3 % of the measured value or 3°C whichever is greater
Test Current	12mA
Analog Output	4-20mA
Digital Output	USB 2.0
Power	24 V DC
Optical Resolution	100 : 1 (approx.) Min. spot size 16mm
Operating temperature	Max.250°C (Optical Head & Fibre Optic)
	0°C +70°C at pyrometer end
Fibre Optic	5 mtr long multi fibre in SS flexible conduit
Operating humidity	Unlimited
Dimensions/Weight (Electronic Unit)	115 mm * 65 mm * 55 mm / 0.5 Kg
Adjustable Parameters via software	Response time, Temperature sub range, emissivity
Readable parameters via software	Measured temperature, temperature graph, emissivity graph, brightness temperature

## Optical Resolution



# ACCESSORIES



**Air purge unit with sighting tube**  
Reference No. 8100 - 01



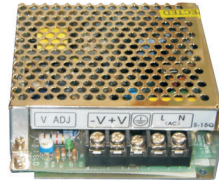
**Air purge unit with Ceramic tube**  
Reference No. 8100 - 02



**Air purge with Mounting flange**  
Reference No. 8100 - 03



**Fiber Optic Cable**  
Reference No. 6000 - 01 (5 Mtr)  
Reference No. 6000 - 02 (10 Mtr)



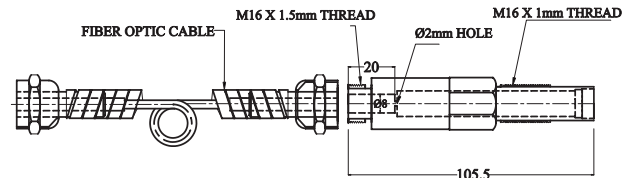
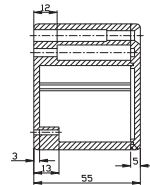
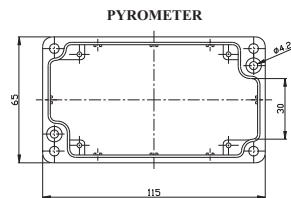
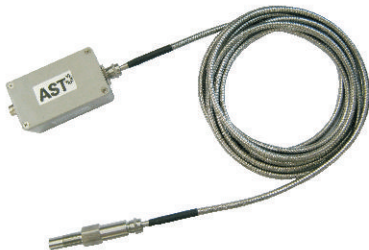
**Power supply Input 110 / 230 V AC,  
Output 24 V DC, 0.75Amp**  
Reference No. 9000 - 02



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

# Dimensions

Pyrometer with Fibre optic cable & optical head



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**Accurate Sensors Technologies**