

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

CE 600°C to 1800°C

AST 450 G-2 is specially designed highly accurate digital pyrometer with 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 fiber 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 Rs232. Emissivity, subrange 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 pyrometer has a solid body in stainless steel housing which provides high operation safety even in rough industrial environment.

### Applications

- ❖ Furnace Crown
- ❖ Furnace sidewall
- ❖ Fore hearth
- ❖ Feeder
- ❖ Working end

### Features

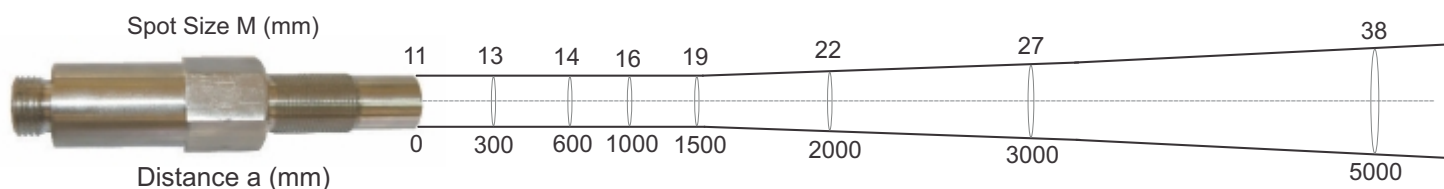
- ❖ Highly accurate 0.3% of measured value
- ❖ Wide temperature range 600.....1800°C
- ❖ Fully digital. Analog and digital output
- ❖ High optical resolution
- ❖ Fast response time : 250mS Adjustable upto 10S
- ❖ Very good stability
- ❖ User friendly software
- ❖ Rugged Stainless Steel Housing
- ❖ Variety of accessories

## AST 450 G-2



<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	+/-0.3 % of the measured value or 3°C whichever is greater
Repeatability	0.2% of reading in°C +1°C
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

## Spot Size



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



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



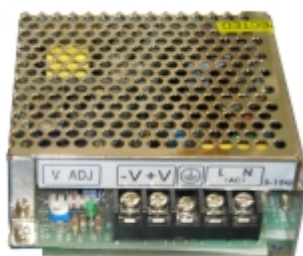
Air purge with Mounting flange  
Reference No. 8100 - 03



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



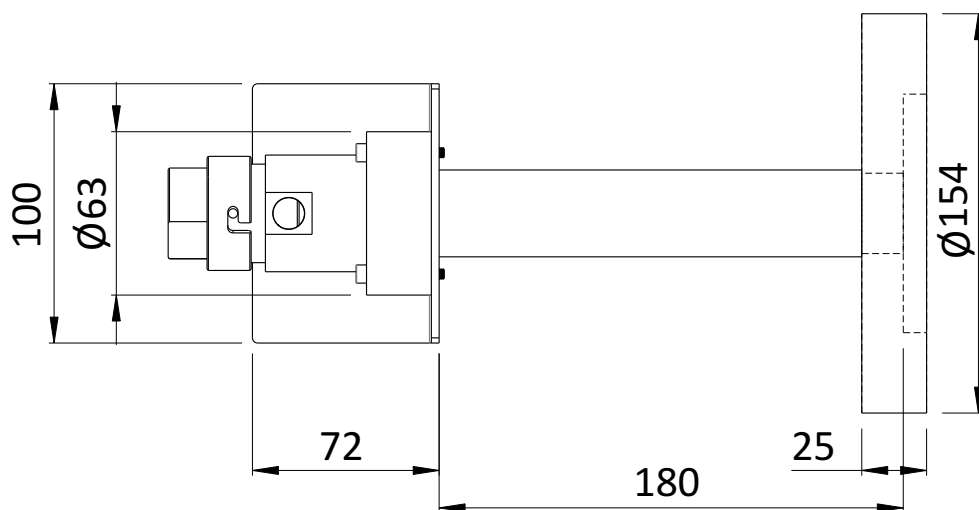
Power supply Input 110 / 230 V AC,  
Output 24 V DC, 0.75Amp  
Reference No. 9000 - 02



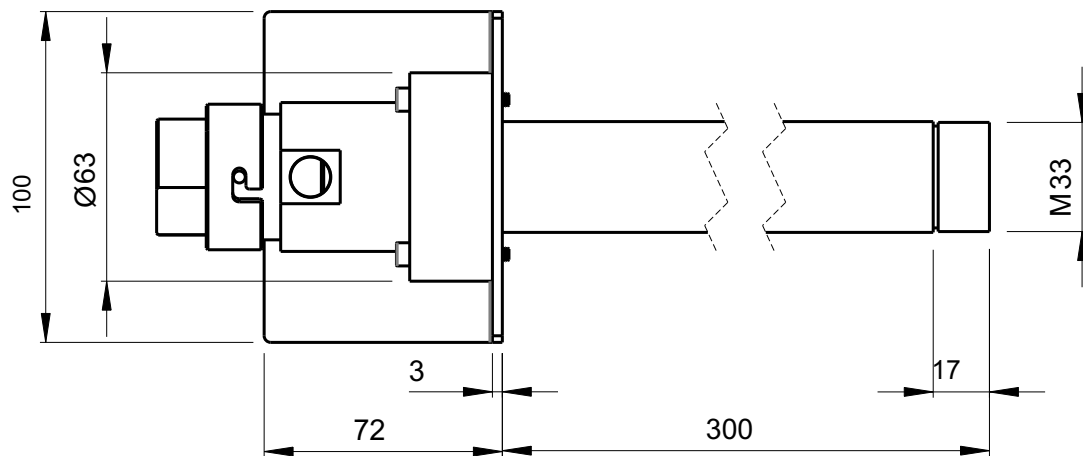
Temperature Indicator with retransmission  
output 4..20mA  
Reference No. 9000 - 01



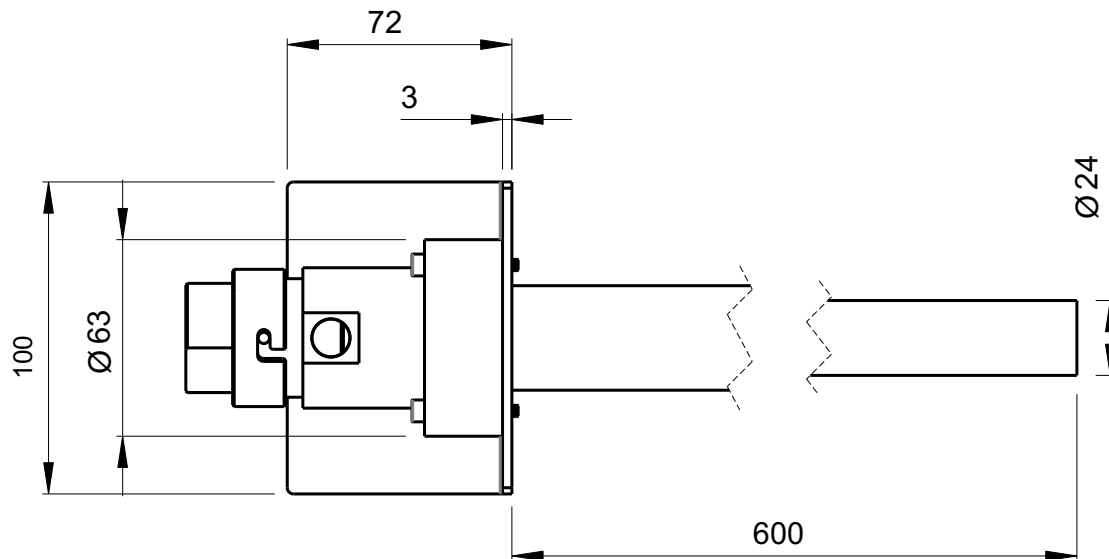
## Dimensions



Air purge with Mounting flange  
Reference No. 8100 - 03



**Air Purge Unit with Sighting Tool**  
(Reference No. 8100-01)



**Air Purge Unit with Ceramic Tube**  
(Reference No. 8100-02)



## **Accurate Sensors Technologies**

Misgav Industrial Park, Misgav 20174 Israel  
Ph. : +972-4-9990025, Fax : +972-4-9990031  
E-mail : technical@accuratesensors.com

**AST**   
Accurate Sensors Technologies

[www.accuratesensors.com](http://www.accuratesensors.com)