

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 USB, Emissivity, Analog output 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 which provide high operation safety even in rough industrial environment.



- ❖ Two Wire technology
- ❖ Highly accurate 0.3% of measured value
- ❖ Wide temperature range
- ❖ 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
- ❖ Test Current Output



Applications

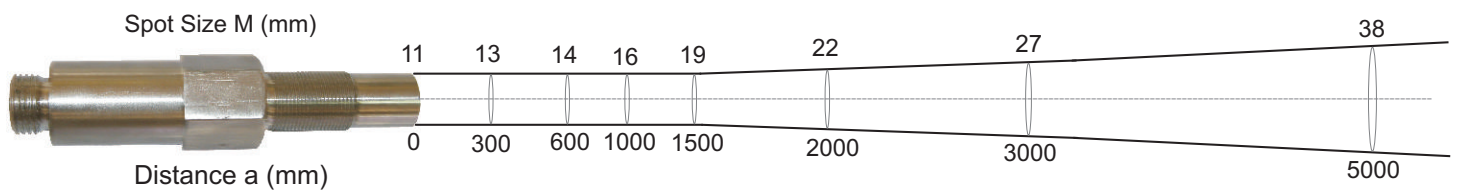
Furnace Crown
Furnace sidewall
Fore hearth
Feeder
Working end

*We Measure Temperature Accurately
even in extreme Conditions*

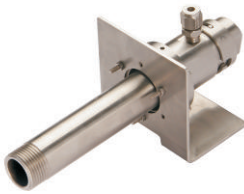
TECHNICAL SPECIFICATION

| | |
|-------------------------------------|--|
| Model | AST 450 G-2 |
| Measured Temperatures Range | 600°.....1800 °C |
| Emissivity Range | 0.05.....1 adjustable via DIP switch and USB |
| Spectral Range, μm | 1 μm |
| 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 13mm |
| 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, Analog output sub range, emissivity |
| Readable parameters via software | Measured temperature, temperature graph, Internal temperature of pyrometer, brightness temperature |

Optical Resolution



ACCESSORIES



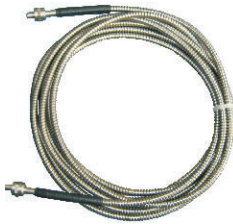
Air purge unit with sighting tube
Reference No. 8100 - 01



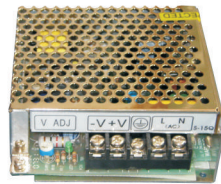
Air purge unit with Ceramic tube
Reference No. 8100 - 02



Air purge with Mounting flange
Reference No. 8100 - 03



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



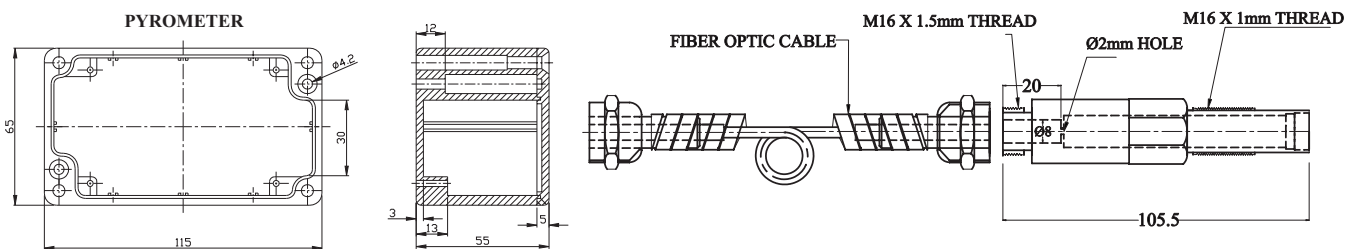
Power supply Input 110 / 230 V AC,
Output 24 V DC, 0.75Amp
Reference No. 9000 - 02



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

Dimensions

Pyrometer with Fibre optic cable & optical head



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