

A150

Highly Accurate on-line Infrared non-contact Pyrometer In Small, Short wavelength for temperature measurement of metallic surfaces, graphite or ceramics with Bluetooth
♦ V2.0/ U.S.B. 2.0
(€ 75°C to 700°C

A150 is a specially designed highly accurate digital IR Pyrometer operating at the near end of the infrared spectrum and is therefore an excellent choice for measurement of ferrous and non ferrous metals above 75°C because the emissivity of un-oxidized metalsurfaces is higher at shorter wavelengths. The parameters like Emissivity, Analog output, Sub-range, Response time and Peak picker can be preset ex-works or adjusted via software. This enables the instrument to be adapted for various measuring tasks. The pyrometer has solid body in stainless steel housing which provides high operation safety even in rough industrial environment. Variety of working Distances with fixed focus available for different applications.

Technical specifications

Model	A150						
Temperature Range (Analog sub-range adjustable)	75°C700°C 100°C700°C						
Spectral Range	2 µm to 2.6 µm						
Photodetector Type	Extended InGaAs						
Distance to Spot Size Ratio	40:1 (75°C700°C) 50:1 (100°C700°C)						
Emissivity (ε)	0.11.0 adjustable						
Response Time	2 msec adjustable upto 10 sec						
Accuracy	Upto 400°C: ±3°C >400°C: ±0.5% of measured value in °C + 1°C						
Repeatability	0.1% of reading in °C + 1°C						
Sighting Options	Laser Pilot Light (PL)						
Analog Output	0-20mA, 4-20mA, 0-10V (User selectable)						
Digital Output	Bluetooth V2.0/ USB2.0(Select anyone while ordering) RS-232/RS-485 (User selectable) *At a time only one digital output possible						
Operating Temp. Range	0°C70°C 0°C200°C (With water cooling jacket)						
Storage Temp. Range	-20°C70°C						
Adjustable Parameters and Features via Software	Emissivity, Response Time, Clear Time(Peak Picker), Analog Output, Analog Scale (Sub Range), Unit Of Temperature(°C/°F), Communication mode (Comm. mode), Record feature etc						
Power Supply	12V to 28V DC with reverse voltage protection						
Power Consumption	Max 2.5 watt						
Laser Power	<1 m watt						
Protection Class	IP65						
Housing	Stainless Steel						
Isolation	Power supply, *Digital output and Analog output are galvanically isolated against each other						
Operating Humidity	10-95%, Non-Condensing Conditions						
Weight & Dimensions	600g Dia= Ø 49.5 mm; Length=118mm						



Features

- Wide temperature ranges from 75°C to 700°C.
- Spectral range 2 μm...2.6 μm
- Laser targeting
- Fast response time within milliseconds
- Analog output options available like 0...20mA, 4...20mA, 0...10V
- Bluetooth V2.0 and RS-232/RS-485 Serial interface
- User friendly PC software for communication

Standard Scope of Supply

- Pyrometer with Laser pilot light(PL)
- Analog output 4...20mA, 0..20mA, 0..10V
- Digital Interface RS-232 & RS-485(user selectable)
- Bluetooth V2.0
- 5 mtr long connection cable with connector
- Calibration certificate, Software & Operation manual.

Optional

- Mechanical and Electrical Accessories
- Extra Cable Lengths
- 1.5 mtr. Communication Cable,

Applications

- Induction Heating
- Casting
- Annealing
- Welding
- Forging

- Sintering
- Melting
- Rolling mills
- Hardening

Thermal and Cable Solutions

Spot Sizes

Manufactured working distance WD (mm)	350	500	700	800	1000	1500	2000	2500	3000	5000	Aperture(A)
Spot Size (40:1) 75°C - 700°C	8.75	12.5	17.5	20	25	37.5	50	62.5	75	125	18
Spot Size (50:1) 100°C - 700°C	7	10	14	16	20	30	40	50	60	100	18

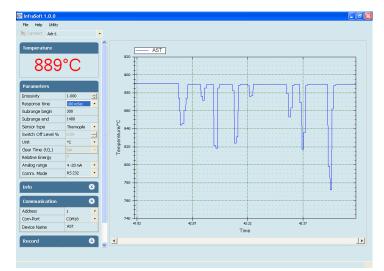
Software "Infrasoft"

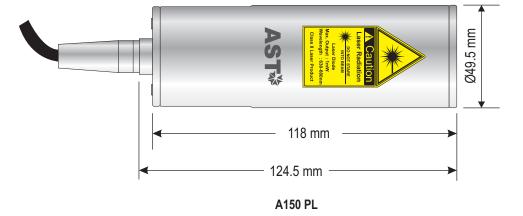
AST "Infrasoft " software is under standard scope of supply. It offers possibilities of connecting three pyrometers simultaneously for parameter setting, view real time graph, offline graph and to evaluate measuring data. Communication between the pyrometer and the software is implemented via a cable connected between the pyrometer and the PC serial port. It comes with record feature, spot size calculator and parameter settings features.

Some of the parameters adjustable via software are

- Emissivity, Response Time,
- Clear Time(Peak Picker),
- Analog Output,
- Sub Range,
- Unit Of Temperature(°C/°F),
- Communication mode(Comm.mode).

Pyrometer Drawing





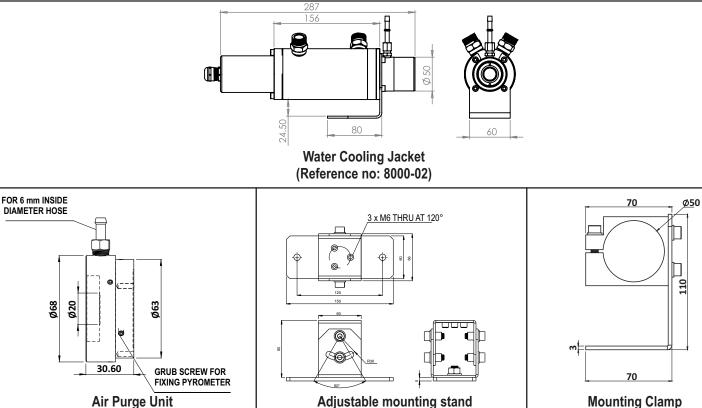
Thermal and Cable Solutions

Accessories



Pyrometer Accessories Drawings

(Reference no: 8000-04)



Mounting Clamp (Reference no: 8000-05)

Tempsens Instruments (I) Pvt. Ltd.

(Reference no: 8000-07)

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