AST★ Accurate Sensors Technologies

Compact, On-Line Infrared Non-Contact Pyrometer for glass surface temperature measurement
CE 200°C to 1400°C

AST TL514 series pyrometer is a digital pyrometer to provide high performance and low maintenance of non contact temperature measurement of glass surfaces & quartz surfaces in demanding industrial environments.

AST TL514 series is provided with TTL output. The emissivity, analog output sub- range, response time can be preset ex-works or adjusted through service software. This enables the instrument to be adapted to various measuring tasks.

These pyrometers have solid body in stainless steel housing which provides high operation safety even in rough industrial environment.
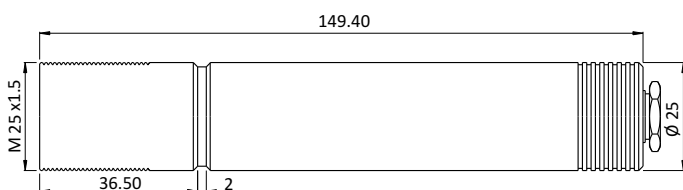
AST TL514

Applications

➢ In glass hardening &bending.

➢ Temperature measurement of float glass.

Standard Scope of Supply

AST TL514 with 3 mtr long connection cable, TTL output, Analog output, 4...20mA, 0...20mA.

Features

- Rugged and compact
- Temperature range 200°C to 1400°C
- Spot Size 50:1
- Response Time 100msec. to 10sec.
- TTL Output and service software
- Analog Output 4...20mA, 0-20mA.
- Variety of Accessories
- Laser Sighting

Optional

USB Interface

USB Interface

TL514 is provided with TTL output. Using the USB dongle and Software pyrometer can be connected to PC for parameter setting.
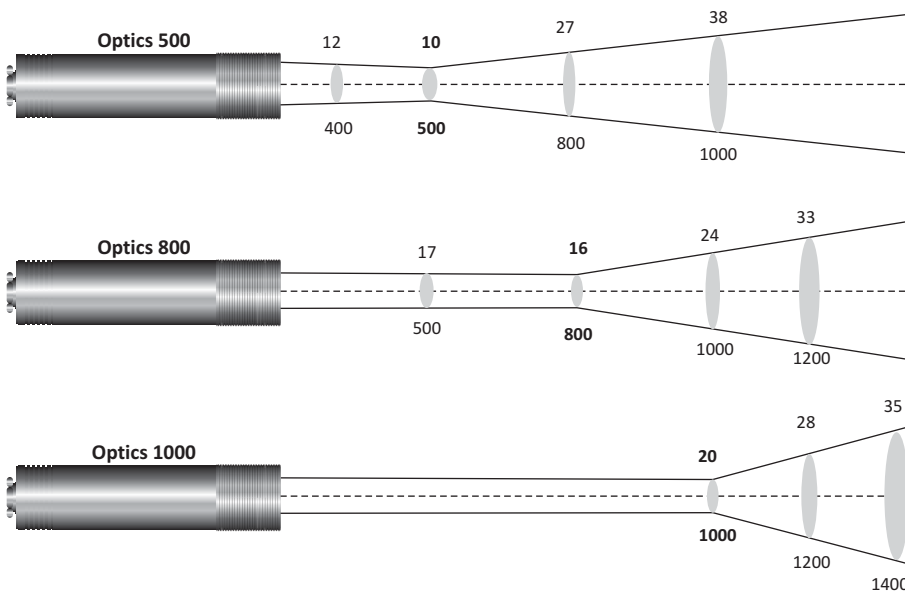
Pyrometer Drawing

149.40
M 25 x1.5
Ø 25
36.50
2

PC Software
"Infrasoft"

We Measure Temperature Accurately even in extreme conditions
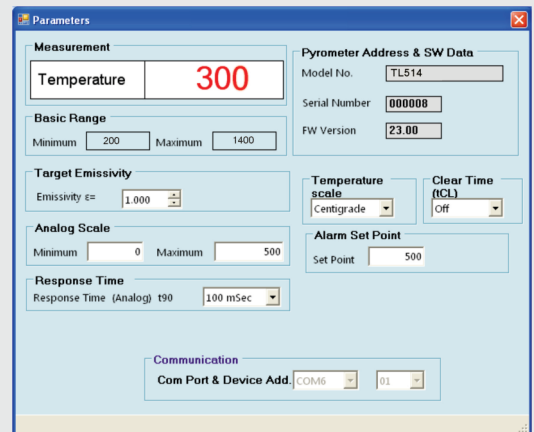
Technical Specification

Model	AST TL514
Measured Temperature Ranges	200°C to 1400°C (Analog sub range adjustable for 4 - 20 mA, 0 - 20 mA.)
Spectral Range	5.14 µm
Detector Type	Thermopile
Analog Output	4 - 20mA, 0 - 20mA.
Digital Output	TTL Output
Emissivity Ɛ	0.1 to 1.0 adjustable
Response Time	100 msec. to 10 sec. adjustable
Distance to spot size ratio	50:1
Measurement Uncertainty	1.5 % of temperature reading **(The instrument must be at a constant ambient temperature for a minimum of 25-30min)**
Repeatability	±0.5% of measured value or ±1°C whichever is greater(at Ɛ=1, Tamb=25°C, Ţ=1sec)
Resolution	0.1°C
Power	+24 V DC (I ⩽ 50 mA)
Ambient temp.	0 to 70°C
Storage Temp.	-20 to 70°C
Housing	Stainless Steel
Protection Class	IP65
Dimension	Dia=25mm; L=103mm; W=0.200kg

Spot Sizes

Optics 500

12   **10**   27   38
400   **500**   800   1000

Optics 800

17   **16**   24   33
500   **800**   1000   1200

Optics 1000

20   28   35
1000   1200   1400
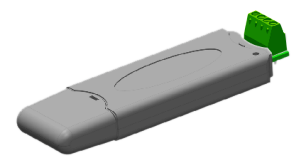
Accessories

Air purge unit
(Reference No. 8200 - 01)

Adjustable Mounting
(Reference No. 8200 - 03)

Power Supply Unit
(Reference No.: 9000-02)

USB Interface For TTL Output
(Reference No.: 9000-07)

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