

Compact, On-Line IR Thermometer/Pyrometer for Low Temperature Applications 0°C to 500°C

TL-8 Fast

TL-8 Fast is a rugged and compact IR Pyrometer of class T series especially designed for low temperature application needs, ranging from 0°C...500°C. The highly recommended and OEM favourite model is perfectly suited for demanding industrial environment because of the compact size, small housing dimensions, and low maintenance.

TL-8 Fast model of T series is particularly a tough competitor due to its high performance at very attractive economy range. **TL-8 Fast** IR pyrometer comes along with analog output 0-5V, digital TTL Output and Alarm Output for variety of applications in process industries.



TL-8 Fast is provided with TTL output. Using the USB interface *InfraLink* and Software pyrometer can be connected to PC for parameter setting and data logging.

Technical specifications

Model	TL-8 Fast
Temperature Range (Analog sub-range adjustable)	0°C to 500°C
Spectral Range	8 - 14 μm
Photodetector Type	Thermopile
Distance to Spot Size Ratio	15:1
Emissivity (ε)	0.1 to 1.2 adjustable
Response Time	10 msec
Accuracy	± 2% of measured value or ± 3°C whichever is greater (Stabilization time is 15min)
Repeatability	± 0.5% of measured value or ± 1°C whichever is greater
Analog Output	0 - 5V
Digital Output	TTL Output
Alarm Output	24 V DC, Load < 100mA(Transistor)
Operating Temp. Range	0°C.....70°C
Storage Temp. Range	-20°C...70°C
Adjustable Parameters and Features via Software	Emissivity, Response Time, *Analog Scale(Sub Range) , Unit Of Temperature(°C/°F), Alarm Set point, Clear time(Peak Picker) etc
Power Supply	24 V DC, I < 50 mA
Power Consumption	Max 1.2 watt
Protection Class	IP65
Housing	Stainless Steel
Operating Humidity	10-95%, Non-Condensing Conditions
Weight & Dimensions	200g Dia= Ø25mm; L=103mm

Features

- Temperature range from 0°C to 500°C
- 15:1 optics
- Spectral range 8...14 μm
- 10 ms response time
- Analog output options like 0 – 5 V
- Alarm output
- TTL Output
- InfraLink USB Interface to access the Infrasoftware

Standard Scope of Supply

- Pyrometer with 3 mtr. long connection cable
- TTL output
- Alarm output
- Analog output options like 0 – 5 V
- Calibration certificate, Software & Operation Manual.

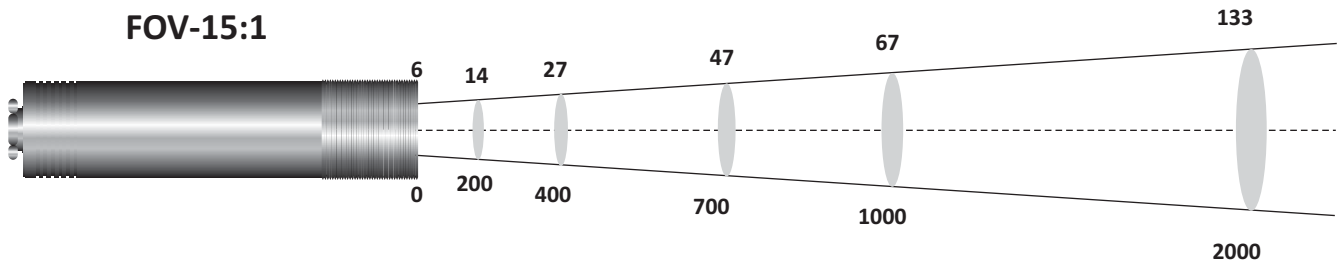
Optional

- Extra cable lengths
- Mechanical and Electrical Accessories
- USB Interface card

Applications

- Plastic
- Paper
- Fluids
- Rubber
- Ceramic
- Wood
- Glass
- Painted & Oxidized Surface
- Textiles

Spot Sizes

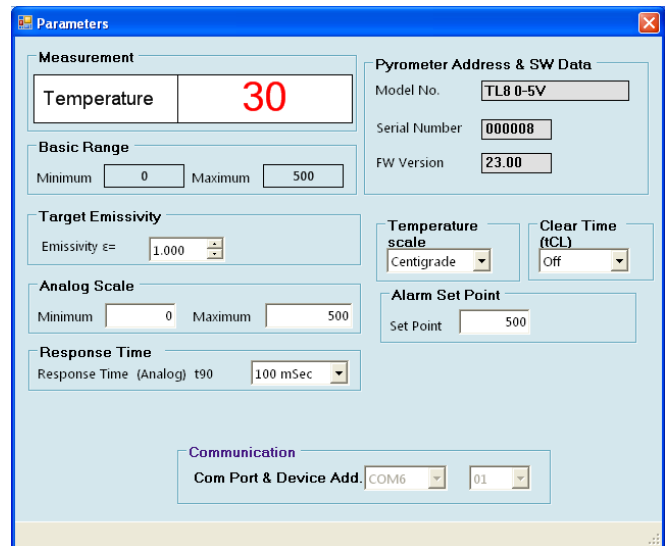


Software "MT500"

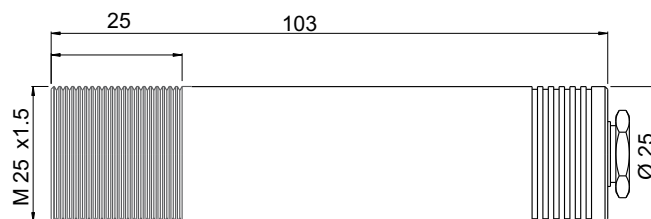
AST "MT500" software is under standard scope of supply. It offers Communication between the pyrometer and the software is implemented via USB Interface card. It comes with alarm set point, Clear time (tCL), Parameter settings features.

Some of the parameters adjustable via software are

- Emissivity
- Response Time
- Clear Time(Peak Picker)
- Alarm Set Point
- Analog Sub Range (not applicable for J & K type Thermocouple)
- Unit Of Temperature(°C/°F)



Pyrometer Drawing



Accessories

Air purge unit
Reference No. 8200 - 01



Adjustable Mounting
Reference No. 8200 - 03



Power supply Input 110/230V AC
Reference No. 9000 - 02
Output 24 V DC, 0.7Amp.



Temperature Indicator
(Reference no: 9000-01)



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