

TB-1000-TO Series

Online Infrared Sensors

FEATURES

- 1 Temperature range : 0 °C ~ 500°C
- 2 Optical resolution up to 15:1
- 3 150 ms response time
- 4 0~5V, Type K or J output
- 5 RS485 (2-Wire) digital interface
- 6 Power Supply 24VDC
- 7 Rugged IP 65 stainless steel housing
- 8 Standard 2m cable



SPECIFICATIONS

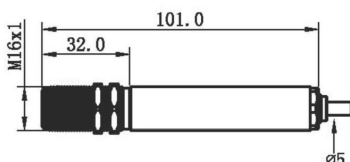
General Specifications		Measurement Specifications	
Environmental Rating	IP 65 (NEMA - 4)	Temperature Range	0°C ~ 500°C (32°F to 932°F) Can be customized according to customer's request
Ambient Temperature	0°C to 70°C	Spectral Response	8 ~ 14 μm
Storage Temperature	-20°C to 85°C	Optics Resolution (90% energy)	15 : 1
Relative Humidity	10 to 95%, non-condensing	Accuracy*1	±1% of reading or ±1.5°C, whichever is greater
Cable Temperature	-20°C to 80°C	Repeatability*1	±0.5% of reading or ±1°C, whichever is greater
Weight	150g (2m cable)	Response Time (95% signal)	150 ms
		Emissivity	0.100 ~ 1.000 (PC software adjustable)
		Temperature Resolution	0.1°C
		Signal processing	peak hold, valley hold, average
		Software	STonline

Electrical Specifications

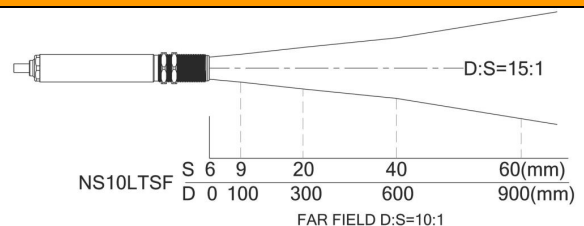
Analog Output	0~5V , Type K or J
Digital Output	RS485 (2-wire)
Maximum Loop Resistance	10 KΩ
T/C Output Impedance	20 Ω
Power Supply	24 VDC ± 20%
Current Draw	max. 50 mA
Cable Length	2 m (standard), 5m or 10m

*1 At 23°C ± 5°C, emissivity = 0.95

Dimensions(mm)

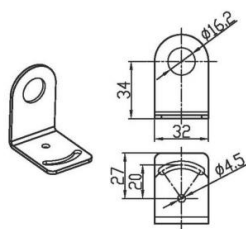


Optical Specifications

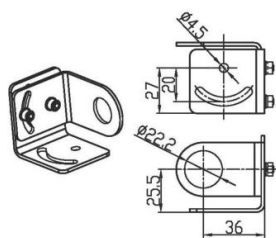


Accessories

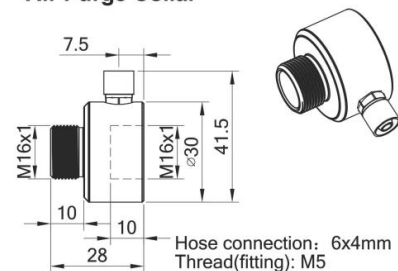
Fixed Bracket



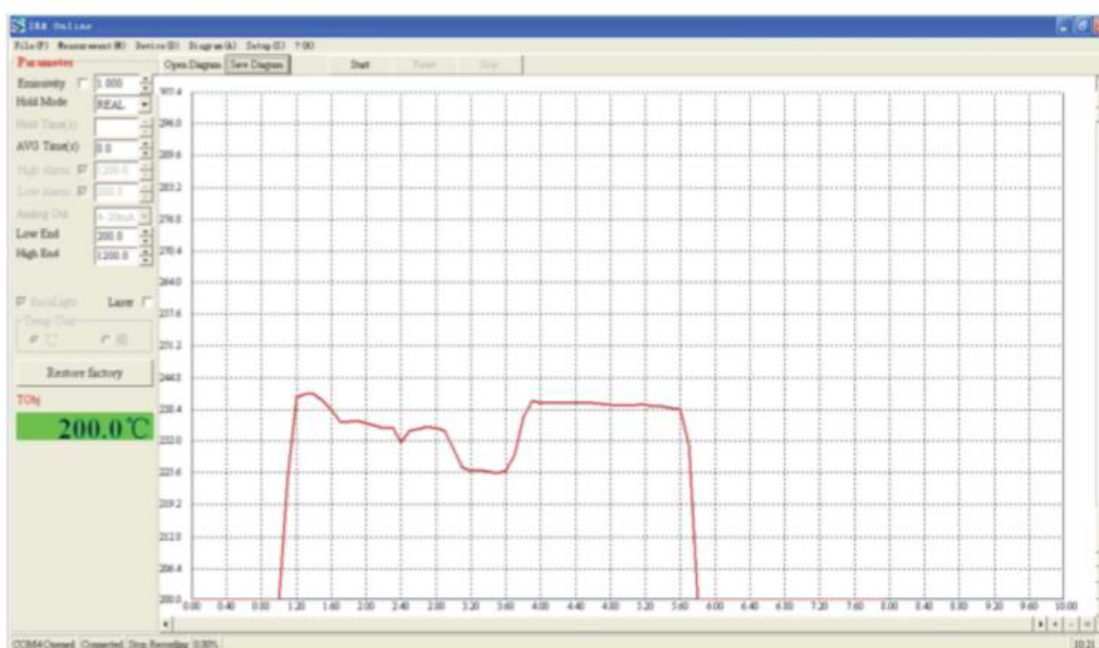
Adjustable Bracket



Air Purge Collar



TBonline Software



Please note that we bear no responsibility for loss due to theft or any other reason.

DUE TO CONTINUOUS PRODUCT IMPROVEMENT, THE DESIGN AND TECHNICAL SPECIFICATIONS
ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE

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