

Sensor head Specifications

Model		BS-30T	BS-05T	BS-02T
Measurement range		0 to 500°C (32 to 932°F) (Display: -20 to 520°C (-4 to 968°F))		
Field of view		ø30 mm/500 mm (Refer to field of view)	ø5 mm/100 mm (Refer to field of view)	ø2 mm/50 mm (Refer to field of view)
Optics		Silicone lens		
Sensing element/ spectral response		Thermopile/8 to 14 µm		
Response time		0.5 sec./90%		
Accuracy*1 ($\epsilon=1.0$)		($\pm 1\%$ or $\pm 2^\circ\text{C}$ (3.6°F) of reading value, whichever is greater) ± 1 digit		
Repeatability		$\pm 1^\circ\text{C}$ (1.8°F)		
Emissivity (ϵ) adjustment		0.10 to 1.20 (0.01 per step)		
Sighting function		-		Coaxial laser marker (Class 2)
Ambient temperature		0 to 65°C (32 to 149°F), With air purge/water-cooling jacket installed: Air-cooled: 0 to 80°C (32 to 176°F), Water-cooled: 0 to 150°C (32 to 302°F)		0 to 50°C (32 to 122°F)
Ambient humidity		35 to 85% RH (no condensation)		
Storage temperature		-20 to 70°C (-4 to 158°F)		-20 to 60°C (-4 to 140°F)
Vibration resistance		3G (20 to 50 Hz, according to IEC 60068-2-6)		
Degree of protection		IP67		
Applicable regulations	EMC	EMC Directive (2014 / 30 / EU)		
	Environment	RoHS Directive (2011 / 65 / EU), China RoHS (MIIT Order No.32)		
	Environment	FDA Regulations (21 CFR 1040.10 and 1040.11) (except for deviations pursuant to Laser Notice No.50)		
Applicable standards		EN 60825-1		
Weight		Approx. 300 g (including connector cable)		Approx. 400 g (including connector cable)
Material		Aluminum		
Standard included accessories		-		Sensor head mounting bracket

*1 The measurement accuracy in the specification is limited to the calibration conditions of our factory.

• Note that specifications are subject to change without prior notice for product improvement purposes.

Amplifier unit Specifications

Model	BS-A	BS-V
Analog output	4 to 20 mA	1 mV/°C
Analog output resolution	0.2°C (0.36°F)	
Digital display resolution	1°C (1°F) (digital display on back of amplifier)	
Functions	Simple emissivity adjustment: TEACH function Response time selection (DELAY) function: 1 (0.5 sec.) to 200 (approx. 10 sec.)	
Supply voltage/ current consumption	12 to 24 VDC ±10%/100 mA or less (at max. load)	
Ambient temperature	0 to 50°C (32 to 122°F)	
Ambient humidity	35 to 85% RH (no condensation)	
Storage temperature	-20 to 60°C (-4 to 140°F)	
Vibration resistance	3G (20 to 50 Hz, according to IEC 60068-2-6)	
Degree of protection	IP65	
Weight	Approx. 320 g (including cable)	
Material	Ring/housing: Glass-filled PBT, Rear / Cover: PC	
Standard included accessories	Amplifier mounting bracket ×1, amplifier mounting screw (M4) ×2	

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