

Digital Display Standard Infrared Temperature Sensor TS-P Series



Clearly visible digital display

6-digit LCD digital display, clearly visible.



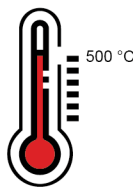
High-quality aluminum alloy shell, beautiful and durable

Stable detection even in harsh environments.

Protection class

IP65

Measuring temperature range 0 to 500 °C



Ask SENPUM

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Fast Delivery Standard Models



Most products are in stock. Upon receiving your order, we will arrange prompt shipment to minimize your downtime-related costs and losses.



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WhatsApp

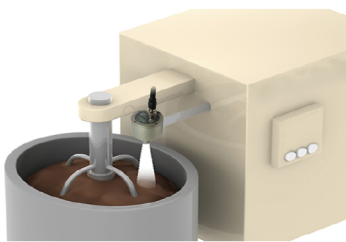


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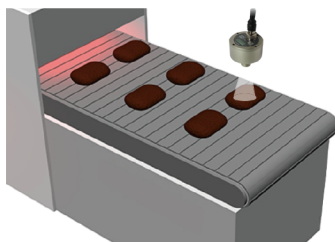
More Features

- 150 ms response time for fast temperature measurement.
- Temperature resolution up to $\pm 0.1\text{ }^{\circ}\text{C}$.
- Easy detection even in harsh environments.
- Aluminum housing, protection class IP65.

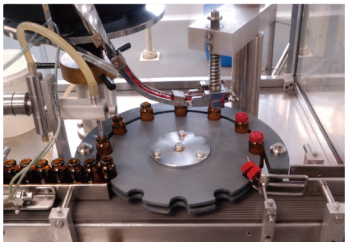
Applications



Pharmaceutical blender temperature control



Food temperature testing

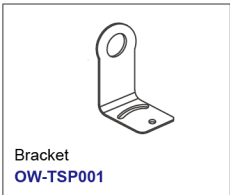


Pharmaceutical testing

Product List

Measuring temperature	Celsius (°C)	0 to 500 °C
	Fahrenheit (°F)	32 to 932 °F
Operating wavelength		8 to 14 μm
Model		TS-P500A
Appearance		

Bracket (sold separately)



Bracket
OW-TSP001

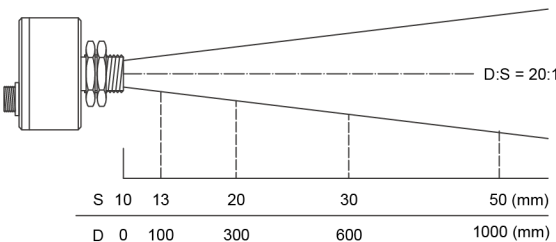
Specifications

Type		Digital display standard type
Model		TS-P500A
Measuring temperature	Celsius (°C)	0 to 500°C
	Fahrenheit (°F)	32 to 932 °F
Operating wavelength		8 to 14 μm
Optical resolution (90% energy)		20:1
Temperature resolution		0.1 °C
Accuracy*1		±1% of reading or ±1.5 °C, max.
Repeatability*1		±0.5% of reading or ±1 °C, max.
Response time (95% energy)		150 ms
Digital display		6-digit LCD digital display
Laser indication		-
Emissivity		0.100 to 1.000 adjustable
Signal output		4 to 20 mA
Power voltage		24 VDC ± 20%
Current consumption		100 mA max.
Maximum load		500 Ω
Minimum load		-
Protection class		IP65 equivalent
Storage temperature		-20 to +85 °C (no freezing)
Ambient temperature		0 to +70 °C (no freezing)
Relative humidity		10 to 95% RH (no condensation)
Material		Housing: Aluminum alloy
Cable length		3 m
Weight		205 g

*1 Ambient temperature = 23 °C ± 5 °C, emissivity = 0.950

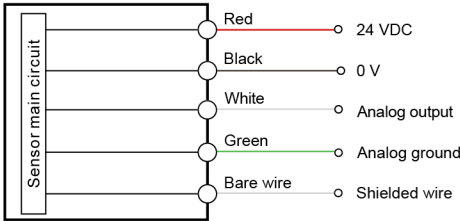
Measuring Area Description

TS-P500A



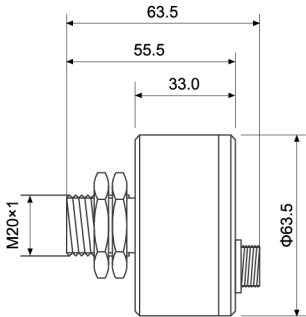
I/O Circuit Diagrams

TS-P500A

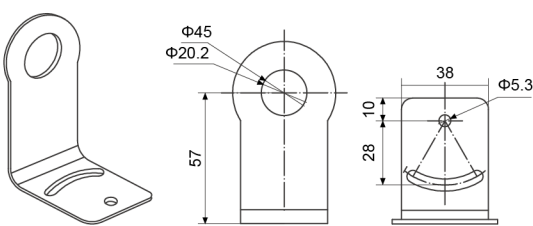


Dimensions

TS-P500A



OW-TSP001



Unit: mm

Infrared Temperature Sensors

TS-D

TS-P

TS-H

TS-Z

Fiber Optic Sensors

Photoelectric Sensors

Color Sensors

Laser Sensors

Proximity Sensors

Precision Contact Sensors

Area Sensors/ Safety Light Curtains

Laser Scanners

Digital Contact Sensors

Laser Displacement Sensors

Laser Micrometers

Confocal Displacement Sensors

Barcode Readers

AI Vision Sensors

RFID

Infrared Temperature Sensors

Pressure Sensors

Flow Sensors

Magnetic Sensors

Ultrasonic Sensors

Magnetic Scales

Static Eliminators



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