

# TASHIKA

## Online infrared thermometer

### Model TC-500-ACO

## Features

- Temperature range : 0 ~ 500°C
- Optical resolution : 20:1
- Response time : 200ms (customizable for 50ms-5s)
- Analog output : 4 ~ 20mA
- Ambient Temp : 0 ~ 60°C
- Storage temperature : -20 ~ 80°C
- IP-65 (NEMA-4) SS housing
- Accuracy :  $\pm 1.5\%$  or  $\pm 2^\circ\text{C}$  whichever is higher
- Standard 2m connection cable

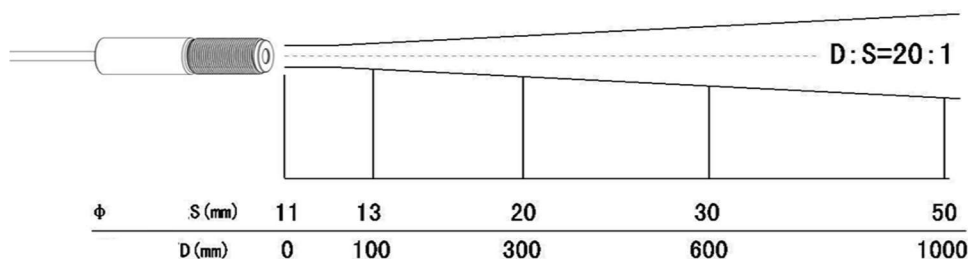


## Description

Model TC-500-ACO is a compact on-line infrared thermometer for non-contact temperature measurement in the range of 0 to 500°C. It provides linear 4~20mA output.

Any object will emit infrared radiation outward based on its surface temperature, and the intensity of the radiation varies with the temperature of the object. For different target temperatures, different infrared thermometers choose different measurement wavelengths to measure temperature. Typically, a wavelength of 8-14 $\mu\text{m}$  is used to measure the target temperature from around room temperature to thousands of degrees Celsius. Non-contact temperature measurement is the biggest advantage of infrared thermometers, allowing users to easily and quickly measure objects that are difficult to access or moving.

## Optical Specifications



## General

Environmental Rating	IP 65
Ambient Temperature	-10°C to 60°C
Storage Temperature	-20°C to 80°C
Relative Humidity	10 to 95%, non-condensing
Weight	210g

## Electrical

Analog Output	4~20mA
Power Supply	9 - 32 VDC
Cable Length	2m, options: 5m or 10m

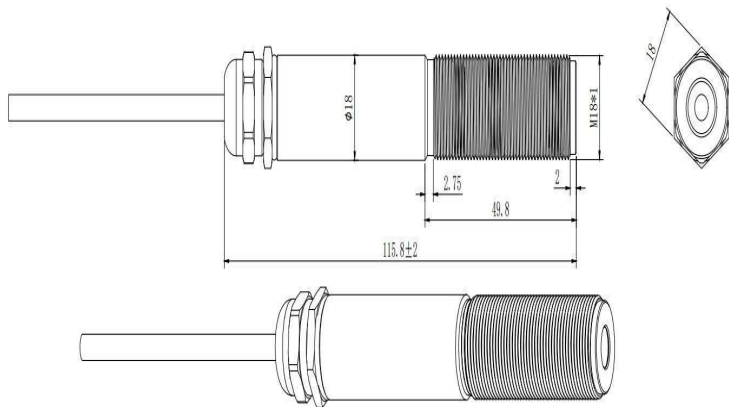
## Measurement

Temperature Range	0°C ~ 500°C (32°F to 932°F)
Spectral Response	8 ~ 14μm
Optical Resolution	20: 1
Accuracy <sup>*1</sup>	±1.5% of reading or ±2 °C, whichever is greater
Repeatability <sup>*1</sup>	±0.5% of reading or ±1°C, whichever is greater
Response Time (95% signal)	Default 200 ms (customizable within 50ms~5s)

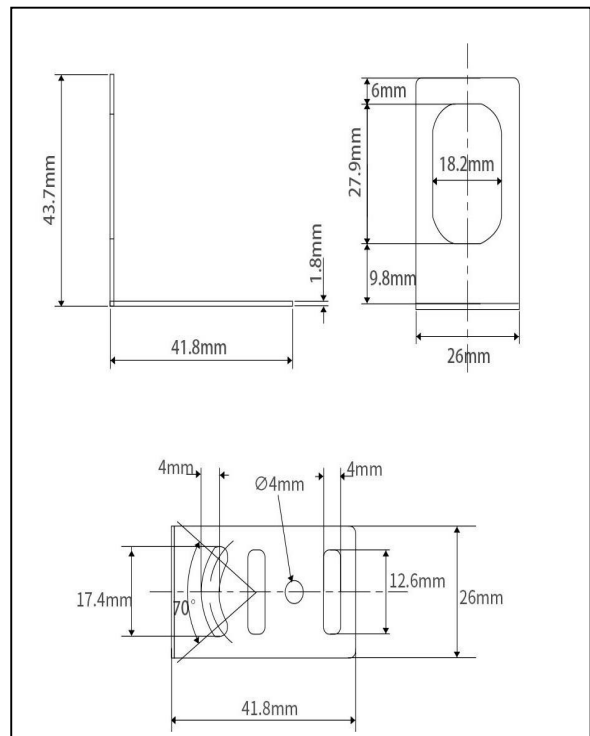
Emissivity	0.95 (Fixed)
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<sup>\*1</sup> At 23°C ±5°C, emissivity = 0.95

## Dimensions (mm)



## Bracket Accessories



Due to continuous improvement, design and technical specifications are subject to change without prior notice

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