

Non-Contact Thermometer

SA-80T-2A [Temperature range: 0~200°C]

SA-80T-4A [Temperature range: 0~400°C]

High-speed response

Full size









Analog output

Features

■ Quick response time

· High-speed response time 100ms/90%

■ Tough and Heavy-Duty

- Waterproofing ability in compliance with IP67
- · High heat resistance up to 70°C of ambient temperature
- · High noise resistance and accurate temperature measurement with stable operation due to SUS body and silicon lens
- · Analog output of 4-20mA highly resistant to noise

■ Compact

· Cylindrical shape enabling installation in a limited space

■ Wide-range & long-focus setting

- · Temperature measurement range: 0-400°C (SA-80T-4A)
- · Area size: *φ* 80mm/ 500mm

Applications

1. For automobile industry



For checking dehydration temperature in baking finishing



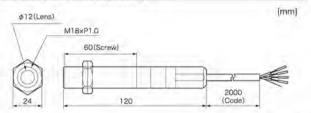
For checking abnormal heat in engine / drive

2.For rubber/ plastic industry



For checking temperature in processing / forming management

Outside dimension



Specifications

Models	SA-80T	
Models	2A	4A
Temperature Range	0~200°C	0~400°C
Area Size	φ 80 / 500mm	
Optics	Silicon Lens	
Spectral Response	Thermopile / 8∼14µm	
Response Speed	100ms / 90%	
Accuracy	0~200°C:±2°C 201~400°C:±1%	
Repeatability	±1°C of reading value	
Analog Output	4-20mA	
Emissivity ratio (&) Adjustment	0.95	
Power Supply	DC12~24V±10% / MAX 70mA	
Ambient Temperature	0~70°C	
Environmental Humidity	35~85%Rh (without dew condensation)	
Storage Temperature	-20~70°C	
Vibration Resistance	10-55Hz, amplitude 1.5mm, two hours each in the direction of X,Y, Z	
Water Resistance	IP67	
Materials	SUS / AI	
Weight	180g	

Accessories: M18 Nutx 2pcs. Optional: Blackbody tape ※ Specifications may change without prior notice.

Dust or dirt adhering to the lens and flaws on the lens may cause incorrect measurement. When the lens is dirty, remove the adhering objects from the lens using a blower for lens cleaning, etc. If dirt remains, wipe the lens softly using a cotton swab or lens wiping cloth moistened with a small amount of ethyl alcohol.

Unit When the unit is dirty, wipe it off using a cloth moistened with a small amount of ethyl alcohol.

Troubleshooting

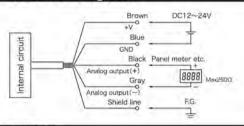
Problems	Cause	Solution	
	The power source is not connected properly.	Check the lead wires and the connection.	
the street when the street street	The power voltage is low it to the DC12~24V range	Check the power voltage and adjust it to the DC12~24V range.	
The lens is dirty.		Clean the lens reterring to the lens section under "Maintenance".	
The measured Gure is add. Near the object to be measured is another object emitting high temperatures, affecting the temperature reading.	Aim the target which should be within the area of view field of the sensor.		
	Block the heat source using a board, etc.		
The measured figure is not stable successful. The temperature of the sensor changes successful.	Preyent the vibration.		
	194 110 \$ 1010 5 1010 5 1010 5 1010	Put the sensor aside for a while to stabilize the sensor's temperature.	

When the above symptoms are not removed even after the corresponding countermeasure has been taken, the wheter may have a fault. In such cases, contact the shop in which you putchased the product or OPTEX.

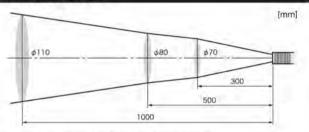




Connection Diagram



Field of View



The optical resolution values stated in "Field of View" are at minimum 90% energy.

The size of measuring object should be sufficiently larger than the field of view (spot size) shown in the above

Safe Usage

This instruction manual contains various warnings for your safety and proper usage to avoid

possible personal Injury. Please be sure to heed the warnings and strictly follow safety instructions.

Caution: This symbol signifies that improper usage may result in injuries or damage.

This symbol signifies a prohibited action. This symbol signifies a required action.

This product is not a clinical thermometer and therefore, can not be used for medical purpor

Environmental Warnings

- KEEP THE THERMOMETER AWAY FROM DIRECT SUNLIGHT, DUST, HIGH TEMPERATURES AND HIGH HUMIDITY DURING USE AND STORAGE.
- KEEP THE THERMOMETER AWAY FROM SUDDEN CHANGE IN AMBIENT TEMPERATURE.
- KEEP THE THERMOMETER AWAY FROM STRONG ELECTROMAGNETIC SOURCES.

Usage Warnings

AVOID MEASURING SHINY OBJECTS.

Shiny objects reflect surrounding temperatures. As this thermometer's sensitivity to emissivity is fixed, the displayed temperature could differ form the actual temperature of objects that have different emissivity values

ONLY RATED SUPPLY SHOULD BE USED FOR POWER SOURCE. Using other than direct current of 12-24V will cause damage, short circuit, lire and injury. In this case, immediately shut off the power.

DO NOT LET THE THERMOMETER TOUCH THE OBJECT THAT IS BEING MEASURED. This product is a non-contact themometer, Touching high-temperature object may cause deformation of the meter, irreparable damage or incorrect measurement.

DO NOT TOUCH THE FILTER. Do not left a solid or sharp object touch the filter and do not insert foreign objects into the filter. These may cause incorrect measurement.

DO NOT BRING THE THERMOMETER CLOSE TO ELECTRICALLY CHARGED OBJECTS.

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