

Cat.No.8269-00

## Waterproof type Infrared Thermometer Model SK-8950



Model

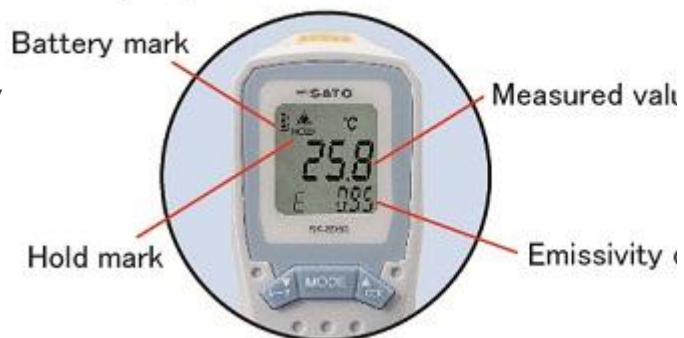
### SK-8950

SK-8950 is a waterproof type Infrared thermometer having the circle laser marker that surrounds the measuring area with red laser. The Waterproof/dustproof property is IP 54. The measuring range is -60 to 550°C. Emissivity is settable with 0.01 steps between 0.10 to 1.00

### Features

- \* Possible to operate the thermometer with wet hands. Waterproof/dustproof property: JIS C 0920 IP54
- \* Without contacting the object, the IR thermometer can quickly detect the surface temperature. So the non-contact type thermometer achieves sanitary and safety measurement
- \* The circle laser marker surrounds the measuring area. So you can easily confirm the measuring area
- \* Emissivity can be set with 0.01 steps in the range of 0.10 to 1.00. For the accurate measurement, it is required to set the proper emissivity depending on the object measured.

### ● Display section



- \* Buzzer sounds when the measured value exceeds the upper and lower values.
- \* Various display functions are equipped: MAX (max. temp.), MIN (min. temp.), AVG (average temp.), DIF (difference between max. and min. temperatures)
- \* Auto measurement function: Without holding the trigger down, continuous measurement can be done.
- \* Backlight: You can easily read the measured value in the dark
- \* Auto Power-off function  
When the trigger is released, the display of the measured value is held for one minute and then the power turns off automatically.
- \* This model carries PSC mark that is conform to the Consumer Product Safety Act. Laser application product (laser class II)



## Specifications

Cat. No.	No.8269-00
Model	SK-8950 Waterproof Type Infrared Thermometer with circle laser marker
Measuring range	-60°C to 550°C
Measurement accuracy	± 2°C or 2% reading at 0.0 to 550°C ± (2°C + 5% reading) at other than above range Conditions: Operation ambient at 23°C±3°C Emissivity: 0.95
Resolution	0.1°C
Emissivity	Settable with 0.01 step in the range $\epsilon = 0.10$ to 1.00 (Refer to the emissivity table)
Distance to Spot size	D:S = approx. 12:1 (D: distance, S: diameter of measurement area)
Sensing element	Thermopile
Spectral response	8 to 14 $\mu$ m
Laser marker	Red laser circle (class II laser product) Wavelength: 650nm Output: less than 1mW
Ingress protection code	JIS C 0920 IP54
Operating ambient	0 to 50°C, less than 85%rh (no condensing)
Storage ambient	-10 to 50°C (no condensing)
Battery life	At continuous measurement: approx. 14 hours * Conditions: use of alkali batteries, laser marker and backlight are ON
Dimensions. Weight	approx. (W)42 x (H)143 x (D)80mm approx. 196g (including batteries)
Accessories	2 pcs. of AAA alkali battery (LR03), Instruction Manual, one neck strap

\* The specifications and appearance may subject to change without notice

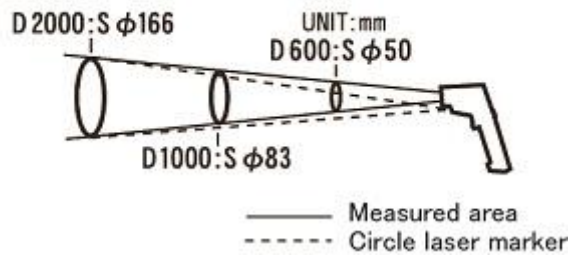
### On the measuring area

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\* In SK-8950, the distance and the diameter of measurement area (D:S) is approx. 12:1  
When the distance between SK-8950 and measuring object is 600mm, the diameter of measurement area becomes 50mm diameter circle.

The distance and spot size (The measuring spot is defined on the basis of the area that receives 90% or more of the energy)

### Distance to spot ratio (D:S)



- \* Relation of measurement area and the position of circle marker  
The laser marker of SK-8950 is a circle type  
The circle laser marker and the measurement area are matched when the measurement distance is 2000mm

Distance	200mm	600mm	1000mm	2000mm
Spot size	φ 18	φ 50	φ 83	φ 166
Measured area and Circle laser marker				
— Measured area				
- - - Circle laser marker				

### \* Cautions

Do not look into the laser marker or point it at anybody's eyes. Doing so may damage your eyes.

Standard for Safe Use of Laser Products (JIS C6802): "Class II" is defined as follows:

A visible light (of wavelengths in the visible region: 400 nm through 700 nm) with an output level (approx. 1 mW or less) that is normally regarded harmless with respect to humans' physical defense capabilities.

	<b>Cautions on safety</b> Read this manual thoroughly before using and keep it in a safe place for future references.		It is dangerous if the laser beam gets into an eye. (Class II Laser Product)
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