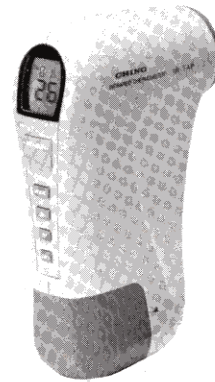


**IR-TA SERIES
HAND-HELD TYPE
DIGITAL INFRARED THERMOMETER**



MODELS IR-TAP

The IR-TA series hand-held type thermometers are easy to use and can be applied to a variety of applications. The thermometers can quickly measure temperature of small objects from a distance without contact. The built-in laser sight helps to pinpoint a measured spot accurately.

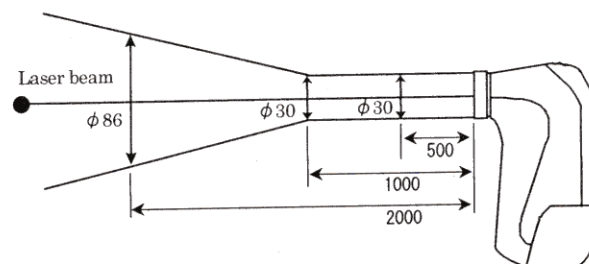


IR-TAP

FEATURES

- Temperature range: -40 to 500°C
- Spot size: $\phi 30/1000\text{mm}$
- Automatic backlit LCD display at dark places by a brightness sensor.
- Palm size, lightweight
- Automatic power off for saving battery life
- Storing data: Up to 150 data
- Stored data backed-up for battery shortage
- Conforms to CE
- Report creation of stored data by a personal computer (Data processing software package required separately)
- Maximum, minimum, average and (maximum - minimum) values displayed
- Audible buzzer alarm
- Emissivity adjustable from 0.30 to 1.90
- Traceability certificate available (For HACCP or ISO 9000)

SPOT SIZE/DISTANCE



IR-TAP

Unit: mm

■ GENERAL SPECIFICATIONS

| | |
|-------------------------|--|
| Temperature | -40 to 500°C |
| Detector | Thermopile |
| Spectral range | 7.5 μm |
| Spot size/distance | ø30/1000mm (Refer to Spot size/distance) |
| Accuracy | ±1% of readings ± 1 digit or ± 2°C ± 1 digit, whichever larger ±3°C at -30°C to 0°C, ±5°C at lower than -30°C (at ambient temperature 25°C ± 2°C) |
| Repeatability | Within ± 1°C ± 1 digit |
| Response time | 0.8 second (90% response) |
| Display | 3-digit LCD |
| Resolution | 0.1°C at -19.9 to 99.9°C; 1°C except this range |
| Display renewal cycle | 0.25 second |
| Target | Marking center of measuring spot by laser beam |
| Beam output | Red laser beam, Less than 1mW, 670 nm (JIS class 2) |
| Storing data | Up to 150 |
| Number of memory group | 15 memory groups |
| Display contents | Current readings, emissivity value setting, alarm setting, low battery, memory group No., year-month/day-hour/minute, stored data, calculated value of stored data, measurement unit (°C or °F) |
| Auto power-Off | Auto power-off in 30 seconds after key operation finished |
| Data output | RS-232C |
| Contents of data output | For personal computer Stored data output mode <ul style="list-style-type: none"> Year/month/day-hour/minute and label at data transmitting Tag, emissivity value and alarm setting (high/low limits) per group, and measured value with measured year/month/ day-hour/ minute For printer Real data output mode Measured value, measured year/month/day-hour/minute and tag Stored data output mode <ul style="list-style-type: none"> Year/month/day-hour/minute and label at printing out Tag, emissivity value and alarm setting (high/low limits) per group, and measured value with measured year/month/day-hour/minute |
| Alarm | High and low alarms per group |
| Emissivity | 0.30 to 1.90 (default: 0.95) |
| Display illumination | Automatic backlit LCD by brightness sensor |
| Operating temperature | 0 to 50°C (No dew condensation) |
| Operating humidity | Lower than 80%RH (No dew condensation) |
| Storage temperature | -20 to 55°C (No dew condensation) |
| Storage humidity | Lower than 80%RH (No dew condensation) |
| Power | Alkaline AA (UM-3) battery, 2 pieces |
| Battery life | About 30 hours continuous operation |
| Size | W92 × H155 × D44 mm |
| Weight | About 220g |
| Belongings | Alkaline AA (UM-3) battery 2 pieces, Manual |
| CE | EN55022 Class B, EN50082-1 |

■ DATA PROCESSING SOFTWARE PACKAGE

■ Model: MP9010

Environment: Windows 95 / 98
(Minimum 4MB free space)

Interface: RS-232C (by exclusive cable)

Cable: 1 m, with D-sub 9 pins female connector

Communications function with IR-TAP:

Automatically power on

Reading of stored data classified by groups

(Maximum 15 groups), Up to 150 data

Reading and setting of clock

Reading and setting of parameters

Name of IR-TAP (Label: within 10 alphanumeric letters)

Name of each groups (Tag: within 10 alphanumeric letters)

Emissivity value, high / low alarms

Erasing all stored data

Memory clear: Initializing all parameters to defaults

Detecting function for interrupted of communications by low batteries

All the above functions are available on a personal computer without any operation by IR-TAP.

Display function:

Display the data of each group read from IR-TAP

Stored data, stored data, alarm status, etc.

Maximum value, minimum value and average value

Display all programmed parameters of each group

Comment adding function:

Entering of a measuring object and a measurer to each group is possible.

Entering a comment to each data

File storage/read function:

3 kinds of file storage type are available.

(Exclusive type, .csv, .txt)

Printing function:

Printing out as a report form

Selection of printout enabled or disabled for each group is possible.

Format - A4 size

Help function:

Simple operation guidance is contained in "Help".



CAUTION

- Please do not aim or direct laser toward faces.
- On measurement of targets like as glossy metal, be careful with influences by the reflection from it.

Specifications subject to change without notice. Printed in Japan (I) 2002. 7 Recycled Paper

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