IR-TA SERIES
HAND-HELD TYPE
DIGITAL INFRARED THERMOMETER

PS
PERFORMANCE SPECIFICATION
CHINO

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.
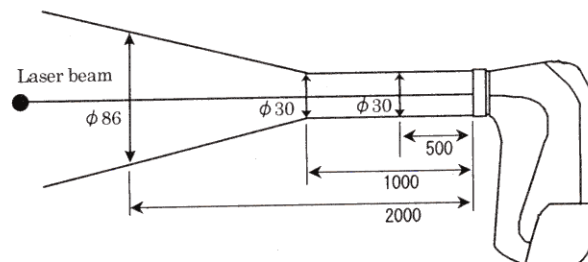
IR-TAP

■ FEATURES

- Temperature range: −40 to 500°C
- Spot size: Φ30/1000mm
- 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
- Traceablility certificate available (For HACCP or ISO 9000)

■ SPOT SIZE/DISTANCE

Laser beam
Φ86   Φ30   Φ30
500
1000
2000

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 • 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 • 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 connecter
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 alphanumerical letters)
Name of each groups (Tag: within 10 alphanumerical 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.

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