

HAND-HELD TYPE DIGITAL INFRARED THERMOMETER IR-TA SERIES



MODELS IR-TA (-40 to 500°C)

The IR-TA series hand-held type thermometer measure temperature quickly from a distance without contact.

Ideal for applications in fields such as refrigeration show cases, transportation, storage, electronic/mechanical parts, food processing, construction, power facilities, etc.



FEATURES

- Laser sight pinpoints measured spots.
- Automatic backlit LCD display at dark places by a brightness sensor
- Palm-sized, light weight (180g)
- Automatic power off for saving battery life
- Maximum or minimum temperature display
- Audible buzzer high alarm standard
- Emissivity adjustable
0.30 to 1.90 (0.01 increments)
- CE conformance
- Traceability certificate available
(For HACCP or ISO9000)

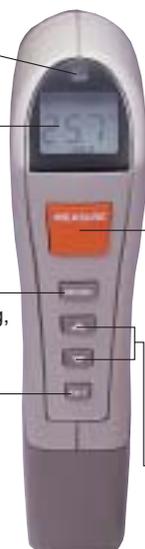
KEY FUNCTIONS

Brightness Sensor
For automatic-backlit LCD display at dark places

Display
Current reading, maximum reading, minimum reading, emissivity setting, alarm setpoint, low battery

Mode key
Selects display of current reading, maximum reading or minimum reading

Entry key
Registration of set value



Measurement key
Indicates the current reading while the key is being pressed and holds the reading for 30 seconds after the key is released.

Up/Down key
Emissivity setting, alarm setpoint setting

DISPLAY

Emissivity selection

DARK: 0.95 BRIGHT: 0.80 FREE: 0.30 to 1.90

Status

MAX : Maximum reading
MIN : Minimum reading
ALARM : Alarm status

Low battery indication
Blinks at low battery.

Readings
Emissivity
Alarm setpoint



Measuring unit

Emissivity

Measurement status

MEAS: Indicates the current reading.
HOLD: Holds the reading.

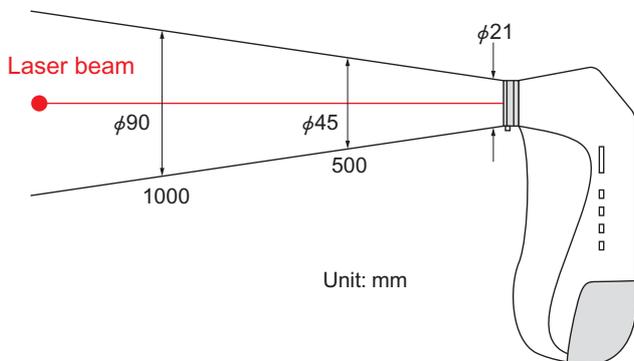
OPTION

- Black body tape (Emissivity 0.94)
Temperature range: 0 to 300°C
Size: 200 x 200mm

GENERAL SPECIFICATIONS

Temperature Range:	-40 to 500°C
Detector:	Thermopile
Spectral Range:	8 to 14 μ m
Target Size:	ϕ 45/500mm
Accuracy:	\pm 1% of reading or \pm 2°C, whichever is larger, \pm 3°C for -30 to 0°C, \pm 5°C for less than -30°C (at ambient temperature 25°C)
Repeatability:	Within \pm 1°C
Response Time:	0.8 seconds (90% response)
Display:	LCD 3 digits display
Resolution:	0.1°C at -19.9 to 99.9°C, 1°C except this range
Output renewal cycle:	0.25 seconds
Targeting:	Marking center of measuring spot by laser beam
Beam Diameter:	About 5mm at 1m distance
Beam Output:	Less than 1mW (670 nm), JIS class 2
Display Contents:	Current reading, maximum reading, minimum reading, reading hold, emissivity setting, alarm setpoint, low battery
Power Off:	Automatic power off after 30 seconds
Alarm:	Audible buzzer high limit, optional low limit
Emissivity:	DARK: 0.95 BRIGHT: 0.80 FREE: 0.30 to 1.90 (1.00 default, 0.01 increments)
Display Illumination:	Automatic backlit LCD by brightness sensor
Operating ambient Temperature/humidity:	0 to 50°C, Lower than 90%RH (No dew condensation)
Storage ambient temperature/humidity:	-20 to 55°C, Lower than 90%RH (No dew condensation)
Power:	Alkaline AA (UM-3) battery, 2 pieces
Battery Life:	About 50 hours continuous operation
Size:	81W x 142H x 32D mm
Weight:	About 180g
Accessories:	Alkaline AA (UM-3) battery 2 pieces, Soft vinyl case
CE conformance:	EN61326 Annex-c portable unit

DISTANCE TO SPOT SIZE



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) 2010. 11

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