

# 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.

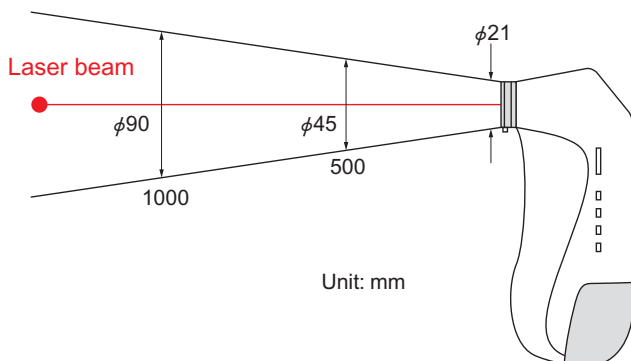
## OPTION

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

## GENERAL SPECIFICATIONS

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