



INFRARED THERMOMETER FT3700-20/ FT3701-20

Environmental Measuring Instruments



Non-contact infrared thermometer featuring simple, one-touch measurement



Choose according to
your measurement
location.

Two Models

FT3700-20

Distance : Spot

12 : 1

Long-focus

For measuring temperature
over a wide area

FT3701-20

Distance : Spot

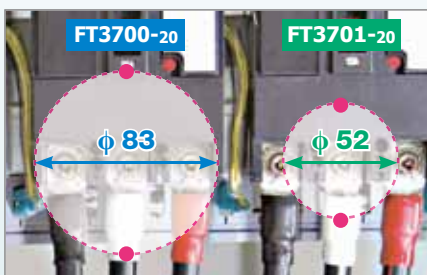
30 : 1

Long-focus, Precise-field

For measuring temperature
at a single point

Identify the
measurement
location reliably.

Two-point laser marker



Measure the average
temperature inside a
circle whose diameter
is defined by the two
indicated points.

Example of a circuit-breaker
(At a distance of approx. 1 m)



Bright



ISO 9001
JMI-0216



ISO14001
JQA-E-90091



www.hioki.com

HIOKI company overview, new products, environmental considerations
and other information are available on our website.



Simulated measurement

Easily measure temperature in hazardous or unreachable locations



Useful Functions

- MAX, MIN, DIF (MAX-MIN), AVG measurement
- Alarm function
- Emissivity (ϵ) can be set based on the measurement target
- Continuous measurement
- Backlight

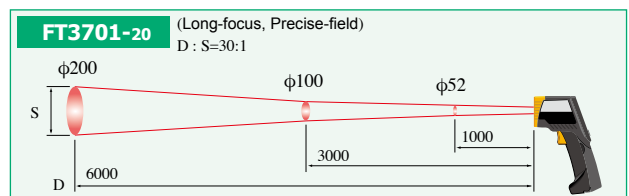
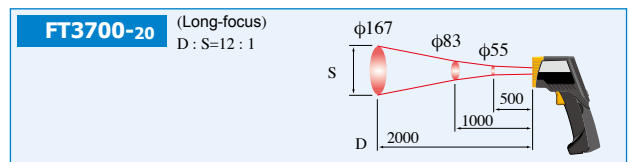
Specifications

(Accuracy guaranteed for 1 year)

	FT3700-20	FT3701-20
Measurement temperature range	-60.0 to 550.0 °C (-76 to 1022 °F) Guaranteed accuracy range is -35 to 500°C. (-31.0 to 932.0 °F)	-60.0 to 760.0 °C (-76 to 1400 °F) Guaranteed accuracy range is -35 to 500°C. (-31.0 to 932.0 °F)
Accuracy	-60.0 to -35.1 °C (-76.0 to -31.1 °F) : Accuracy not specified -35.0 to -0.1 °C (-31.0 to 31.9 °F) : $\pm 10\%rdg. \pm 2 \text{ }^\circ\text{C}$ 0.0 to 100.0 °C (-32.0 to 212.0 °F) : $\pm 2 \text{ }^\circ\text{C}$ 100.1 to 500.0 °C (212.1 to 932.0 °F) : $\pm 2\%rdg.$ 500.1 to 550.0 °C (932.0 to 1022 °F) (FT3700-20) 500.1 to 760.0 °C (932.0 to 1400 °F) (FT3701-20) : Accuracy not specified	
Accuracy guarantee for temperature and humidity	23 °C $\pm 3 \text{ }^\circ\text{C}$ (73 °F $\pm 5 \text{ }^\circ\text{F}$) 80% RH or less (non-condensating)	
Temperature coefficient	Measurement accuracy $\times 0.1/^\circ\text{C}$	
Response time	1 second (90%)	
Diameter of field of measurement	83 mm at 1000 mm (Distance : Spot = 12 : 1)	100 mm at 3000 mm (Distance : Spot = 30 : 1)
Detection element	Thermopile	
Sighting	Two-point laser marker Max 1mW (class 2), Red	
Measurement wavelength	8 to 14 μm [Thermal emissivity compensation]0.10 to 1.00 by steps of 0.01	
Additional Functions	MAX/ MIN/ DIF (MAX-MIN)/ AVG measurement, Alarm function, Backlight function	
Operating temperature and humidity	0 to 50°C (32°F to 122°F), 80%RH or less (non-condensating)	
Storage temperature and humidity	-10 to 50°C (14°F to 122°F), 80%RH or less (non-condensating) 50 to 60°C (122°F to 140°F), 70%RH or less (non-condensating)	
Applicable standards	EMC : EN61326 Laser : IEC60825-1 CLASS 2 LASER	
Power supply	LR03 alkaline battery $\times 2$ [Continuous operating time: Approx. 140 hours](When laser marker and backlight are OFF)	
Dimensions	Approx. 48 W \times 172 H \times 119 D mm (1.89" W \times 6.77" H \times 4.69" D)(excluding projections)	
Mass	Approx. 256 g (9.0 oz.) (including LR03 alkaline battery $\times 2$)	
Accessories	Instruction manual, LR03 alkaline battery $\times 2$ (supplied with this product for initial use only), Carrying case $\times 1$	

Measurement focus

D : Distance (mm) S : Spot (mm)



INFRARED THERMOMETER FT3700-20

Long-focus

INFRARED THERMOMETER FT3701-20

Long-focus, Precise-field

Option

BLACK BODY TAPE

(50mm \times 10m, 1 roll) Withstands 180°C $\epsilon=0.95$



*Optional use of black body tape allows increased emissivity in order to obtain accurate temperature measurements on low-emissivity materials such as metals.



Laser Product Caution Notice

A caution label is attached to the thermometer. Be sure to observe the operating precautions on the label.

Contact infrared thermometer

Supports temperature management needs of various applications

- Compact and weighing only 160g
- More than 200 hours of continuous operation on a single battery
- An assortment of 9 optional temperature sensors



TEMPERATURE HiTESTER 3441
(Economically priced)

TEMPERATURE HiTESTER 3442
(Waterproof design)

HIOKI

HIOKI E. E. CORPORATION

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