

## 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

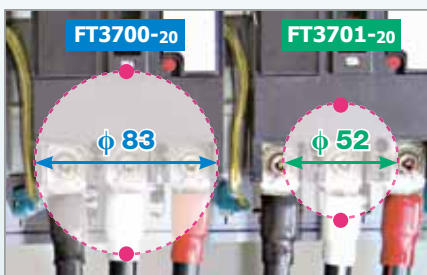
**30 : 1**

**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](http://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 ( $\epsilon$ ) can be set based on the measurement target
- Continuous measurement
- Backlight

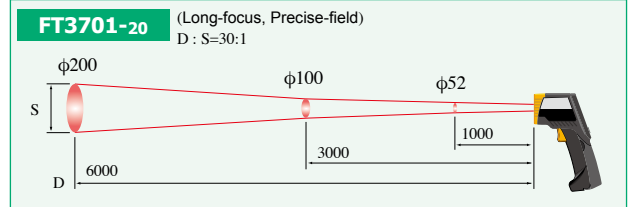
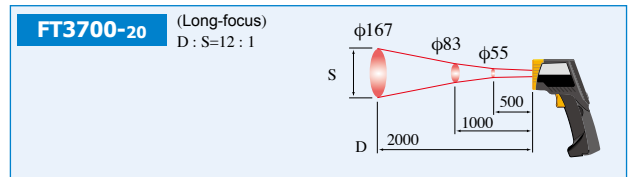
## Specifications

(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	0.0 to 100.0 °C (-32.0 to 212.0 °F) : $\pm 2$ °C 100.1 to 500.0 °C (212.1 to 932.0 °F) : $\pm 2\%$ rdg. -35.0 to -0.1 °C (-31.0 to 31.9 °F) : $\pm 10\%$ rdg. $\pm 2$ °C -60.0 to -35.1 °C (-76.0 to -31.1 °F) : Accuracy not specified 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 $\pm 3$ °C (73 °F $\pm 5$ °F) 80% RH or less (non-condensating)	
Temperature coefficient	Measurement accuracy $\times 0.1/$ °C	
Diameter of field of measurement	83 mm at 1000 mm (Distance : Spot = 12 : 1)	100 mm at 3000 mm (Distance : Spot = 30 : 1)
Response time	1 second (90%)	
Detection element	Thermopile	
Sighting	Two-point laser marker max 1mW (class 2), Red	
Measurement wavelength	8 to 14 $\mu$ m [Thermal emissivity compensation]0.10 to 1.00 by steps of 0.01	
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 $\times 2$ , 150mVA [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 $\times 1$ , 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



### 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)

Note: Company names and Product names appearing in this catalog are trademarks or registered trademarks of various companies.

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