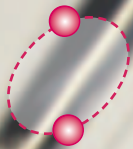


### Non-contact infrared thermometer featuring simple, one-touch measurement



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

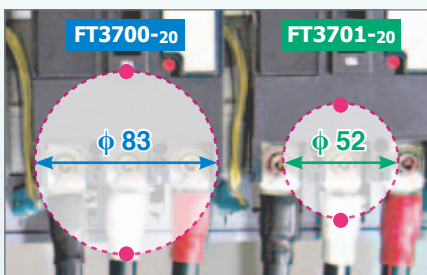
**30 : 1**

**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



# 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

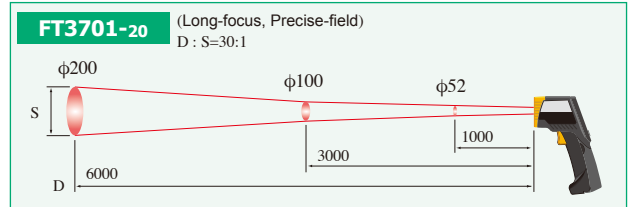
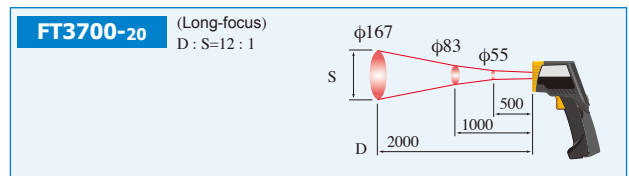
## Specifications

(Accuracy guaranteed for 1 year)

|                                                 | FT3700-20                                                                                                                                                                                                                                                                                                                                                                            | FT3701-20                                                                                            |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| Measurement temperature range                   | -60.0 to 550.0 °C (-76 to 1022 °F)<br>Guaranteed accuracy range is -35 to 500°C. (-31.0 to 932.0 °F)                                                                                                                                                                                                                                                                                 | -60.0 to 760.0 °C (-76 to 1400 °F)<br>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<br>100.1 to 500.0 °C (212.1 to 932.0 °F) : $\pm 2\%$ rdg.<br>-35.0 to -0.1 °C (-31.0 to 31.9 °F) : $\pm 10\%$ rdg. $\pm 2$ °C<br>-60.0 to -35.1 °C (-76.0 to -31.1 °F) : Accuracy not specified<br>500.1 to 550.0 °C (932.0 to 1022 °F) (FT3700-20)<br>500.1 to 760.0 °C (932.0 to 1400 °F) (FT3701-20) :<br>Accuracy not specified |                                                                                                      |
| Accuracy guarantee for temperature and humidity | 23 °C $\pm 3$ °C (73 °F $\pm 5$ °F)<br>80% RH or less (non-condensating)                                                                                                                                                                                                                                                                                                             |                                                                                                      |
| Temperature coefficient                         | Measurement accuracy $\times 0.1/$ °C                                                                                                                                                                                                                                                                                                                                                |                                                                                                      |
| Diameter of field of measurement                | 83 mm at 1000 mm<br>(Distance : Spot = 12 : 1)                                                                                                                                                                                                                                                                                                                                       | 100 mm at 3000 mm<br>(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<br>[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)<br>50 to 60 °C (122 °F to 140 °F), 70%RH or less (non-condensating)                                                                                                                                                                                                                                                 |                                                                                                      |
| Applicable standards                            | EMC : EN61326<br>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<br>(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



Carrying case



### 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)

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