



# INFRARED THERMOMETER FT3700-20/ FT3701-20

Environmental Measuring Instruments



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



www.valuetronics.com

### Easily measure temperature in hazardous or unreachable locations

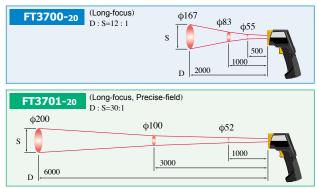


Useful Functions • MAX, MIN, DIF (MAX-MIN), AVG measurement • Alarm function • Emissivity (ε) can be set based on the measurement target • Continuous measurement • Backlight

#### Specifications (Accuracy guaranteed for 1 year)

	FT3700-20	FT3701-20
Measurement temperature range		-60.0 to 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. $\pm 2$ °C 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. 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 ±3 °C (73 °F ±5 °F) 80% RH or less (non-condensating)	
Temperature coefficient	Measurement accurary $\times 0.1/$ °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 $14 \mu$ m [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 × 2 [Continuous operating time: Approx. 140 hours](When laser marker and backlight are OFF)	
Dimensions	Approx.48 W × 172 H × 119 D mm (1.89" W × 6.77" H × 4.69" D)(excluding projections)	
Mass	Approx. 256 g (9.0 oz.) (including LR03 alkaline battery × 2)	
Accessories	Instruction manual, LR03 alkaline battery × 2(supplied with this product for initial use only), Carrying case × 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×10m, 1 roll) Withstands 180°C ε=0.95

\*Optional use of black body tape allows increased emissivity in order to obtain accurate temperature measurements on lowemissivity 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.

#### **Related Products**

## Use a Temperature HiTester with output for continuous temperature measurement applications.

Measure a broad range of temperatures quickly and accurately at a resolution of 0.1°C.
Use the optional INTERFACE PACK 3909 to output measurement data in real time for use by a recorder or computer.





TEMPERATURE HITESTER 3444 (With real-time output, narrow field measurement type) TEMPERATURE HITESTER 3445 (With real-time output, fine surface measurement)

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All information correct as of Jun. 8, 2012. All specifications are subject to change without notice.

FT3700-20E1-26B Printed in Japan