



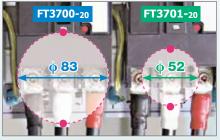
INFRARED THERMOMETER FT3700-20/ FT3701-20

Environmental Measuring Instruments



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





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



Simulated measurement

Easily measure temperature in hazardous or unreachable locations







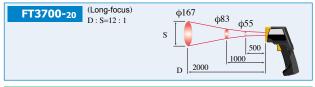
Useful **Functions**

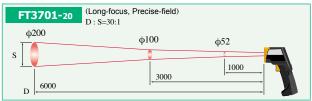
- MAX, MIN, DIF (MAX-MIN), AVG measurement
- Alarm function
 Emissivity (ε) can be set based on the measurement target
- Continuous measurement Backlight

Specifications

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) : ±10%rdg,±2 °C 0.0 to 100.0 °C (-32.0 to 212.0 °F) : ±2 °C 100.1 to 500.0 °C (212.1 to 932.0 °F) : ±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 °C (73 °F \pm 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 μ 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 $50^{\circ} C$ (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 × 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)	

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

Accessories

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

Instruction manual, LR03 alkaline battery × 2(supplied with this

product for initial use only), Carrying case × 1

- 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)

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

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