

# Infrared Thermometers

## Technical Data



## MT693

The MT693 has a 400mm flexible goose neck with the infrared sensor built in the head. This is an ideal IR thermometer for detecting and measuring temperature in hard to reach areas. Other features include a laser pointer, large backlit LCD display, Auto power off, selectable °C or °F and an auto data hold when the button is released.

### Features Include:

- 8 to 1 distance to target ratio measures smaller surface areas at greater distances
- Maximum temperature display from -50°C ~ 600°C
- Built-in laser pointer
- 400mm Gooseneck detector is easy for measurements in hard-to-reach areas
- 0.95 Fixed emissivity
- Auto Range Selection
- Overrange Indication
- Backlighting illuminates display for measurements at night or in areas with low background light levels
- 0.1°C Resolution
- Selectable °C or °F
- White backlit LCD display

### General Specifications

Display	: LCD with backlighting
Polarity	: Automatic (no indication for positive polarity); minus (-) sign for negative polarity
Overrange Indication	: "1" or "-1" is displayed
Measuring Ranges/Resolutions:	: -50°C to 600°C (-58°F to 1112°F)/(0.1° up to 200°, 1° over 200°)
Sample Rate	: 1 sec approx.
Laser Power	: Less than 1mW
Spectral Response	: 6 ~ 14 um
Power Off	: Automatic shut off after 7 seconds
Operating Temperature	: 0 to 50°C (32 to 122°F)
Storage Temperature	: -20 to 60°C (-4°F to 140°F)
Relative Humidity	: 80% operating, <80% storage
Power Supply	: 9V battery, NEDA 1604A or IEC 6LR61, or equivalent
Weight	: 180g
Size	: 147 X 45 X 40mm

<b>Range</b> (Automatic selection 0.1° up to 200°, 1° over 200°)		<b>Resolution</b>	<b>Accuracy</b>
-50.0°C ~ 200.0°C	-50.0°C ~ -20.0°C	0.1°C	± 5°C
	-20.0°C ~ -200.0°C		± 2% of reading or ± 2°C
200°C ~ 600°C		1°C	± 2% of reading or ± 2°C
-58.0°F ~ 200.0°F	-58.0°F ~ -4.0°C	0.1°F	± 10°F
	-4.0°F ~ 200°C		± 2% of reading or ± 4°F
200°F ~ 1112°F		1°F	± 2% of reading or ± 4°F
<b>Note</b>	1. Accuracy is given at 18°C to 28°C (64°F to 82°F) less than 80% RH		
	2. Accuracy specified is for emissivity of 0.95		
<b>Emissivity Settings</b>	0.95 fixed		
<b>Distance Factor</b>	D:S= Approx. 8.1 (D=distance, S=speed)		