

To recall saved readings: press “MODE” until “RCL”appears in the bottom left corner of the display. Use the up and down buttons to scroll through the saved readings. **(MS6531C Only)**

To clear all saved readings” press “MODE” until “CLR ALL” appears on the bottom of the display. Press the trigger to clear readings. **(MS6531C Only)**

To show the maximum recorded value: press “MODE” until “MAX” appears on the bottom left corner of the display.

To show the minimum recorded value: press “MODE” until “MIN” appears on the bottom left corner of the display.

To show the difference between the minimum and maximum values: press “MODE” until “dIF” appears on the bottom left corner of the display.

To show the average recorded value: press “MODE” until “AVG” appears on the bottom left corner of the display.

To set the high alarm level: press “MODE” until “HAL” appears on the bottom left corner of the display. Press the up and down buttons to set the alarm level.

To set the low alarm level: press “MODE” until “LAL” appears on the bottom left corner of the display. Press the up and down buttons to set the alarm level.

When the high and low alarms are set, the meter will beep if the temperature measured is above the high level or below the low level. In addition, the main display will show “Hi” or “Lo” and the icon in the top right corner will turn red or blue to indicate high or low alarm respectively.

To measure temperature using the included type-k thermocouple probe: press “MODE” until “PRB” appears on the bottom left corner of the display. Insert the type-k thermocouple into the thermocouple jack on the bottom of the thermometer.

Make sure to observe the polarity when inserting the thermocouple. Touch the tip of the probe to the object under test. The measured temperature will be shown on the bottom right of the display.

To turn on/off the laser pointers: during measurement, press the down button to switch between the laser pointers on or off.

To turn on/off the backlight: during measurement, press the up button to turn on or off the backlight.

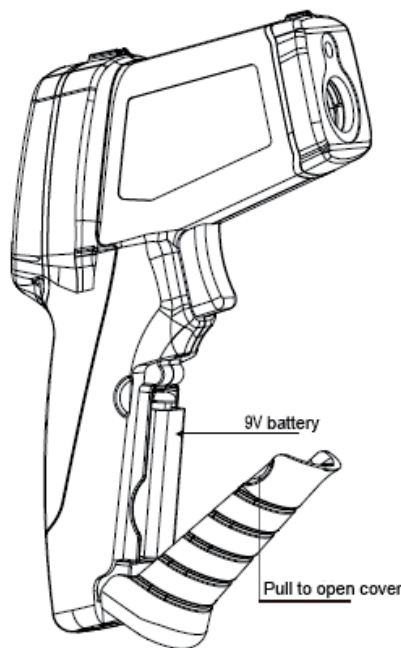
To switch between °C and °F: while in HOLD mode, press the down arrow to switch temperature units.

To lock the thermometer into measurement:

While in HOLD mode, press the up button and the thermometer will begin measuring and continue to measure until the up button is pressed again.

9.3 Battery Replacement

When the battery is running low, the  symbol will appear indicating the battery needs to be replaced. Open the battery cove and replace the old battery with a new 9V battery.



10. Additional Notes

10.1 Thermometer

- Infrared thermometers are used to measure surface temperature.
- The sensor collects infrared energy and is gathered in the detector circuit and converted into a temperature reading for display.
- The laser pointers are only used for aiming purposes

10.2 Surfaces

- Make sure the object to be measured is larger than the diameter of the thermometer’s spot field.
- The smaller the target, the closer the meter should be.

10.3 Distance to Spot Size

- As the distance between the surface to be measured and the meter increases, the spot increases according to the ratio 12:1.

10.4 Hotspot positioning

- To find a hotspot, aim the thermometer outside the area to be measured and then move it around within the correct area to find the hotspots.

10.5 Tips

- Not recommended for measuring on light metal or smooth metal surfaces such as stainless steel, aluminum, etc.
- Sensor cannot penetrate through transparent surfaces such as glass.
- Steam, dust, smoke, etc. block the sensor from picking up infrared energy, thus decreasing it’s accuracy.

10.6 Warranty

- Clean the meter regularly with a dry cotton cloth.

- DO NOT use any type of chemicals or detergents.

- Maintenance and repairs should only be done by qualified personnel.

- DO NOT immerse the thermometer in water.

- DO NOT store the thermometer in an area with high temperature or high humidity.

10.7 Emissivity

- Emissivity characterizes the type material and the amount of radiant energy given off by the material. Most organic materials and painted/oxidized surfaces have an emissivity of 0.95.

11. Accessories and Table of Emissivity
11.1 Accessories

- Instruction Manual
- Warranty Card
- 9V Battery
- Type-K Thermocouple
- Hook

11.2 Table of Emissivity

Material	Emissivity	Material	Emissivity
Aluminum	0.30	Glass	0.90 to 0.95
Asphalt	0.95	Iron Oxides	0.78 to 0.82
Concrete	0.95	Paint	0.80 to 0.95
Asbestos	0.95	Plastic	0.85 to 0.95
Ceramics	0.95	Paper	0.70 to 0.94
Brass	0.50	Plaster	0.80 to 0.90
Brick	0.90	Rubber	0.95
Carbon	0.85	Wood	0.90
Sludge	0.94	Textile	0.94
Frozen Food	0.90	Lead	0.50
Hot Food	0.93	Marble	0.94
Ice	0.98	Cloth (black)	0.98
Snow	0.90	Sand	0.90
Human Skin	0.98	Water	0.93

