

MT-250

Pocket Sized Handheld Digital Infrared Thermometer



Operating Instructions

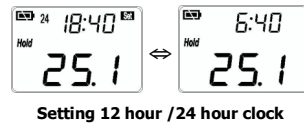
Specifications:

- Temperature measurement range: -67~482°F (-55 to +250°C)
- Operating temperature range: 14 to +122°F (-10 to +50°C)
- Resolution: 0.1°C /°F (for thermometer); 0.01sec (for Stop Watch)
- Accuracy: -55~0°C: +/- (2+0.05/deg)°C; above 0°C: +/- 2°C or +/- 2% of the reading, whichever is greater
- Field of View: 5:1 (Distance-to-Spot Ratio)
- Emissivity Range: 0.95 default –adjustable 0.05 to 1
- Auto real time clock and Room temperature while power off
- °F / °C Switch, MIN/MAX/LOCK, Stop Watch function
- Battery Life: 40 hours continuous use (auto power off after 15seconds)
- The battery life of the shelf =8 months.
- Battery: one CR2032 lithium cell battery (replaceable)
- Foldable stand



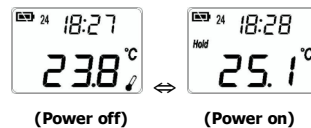
Setting Clock

- 1) Power on: Press the "Scan Button".
- 2) Press the "Mode Button" seven times and the "Set" icon starts to flash, which indicates the setting screen.
- 3) Press the "Scan Button" to make the "24" icon flashing, which indicates the 12/24-hour setting screen. Press the "Scan Button" again to set 12/24-hour Format from 24-hour to 12-hour.
- 4) Press the "Mode Button" to move the flashing in the sequence shown below to select other settings.
Hour → **Minutes**
- 5) While the hour, minutes setting is flashing, use "Scan Button" to change it. Press "Mode Button" when complete.



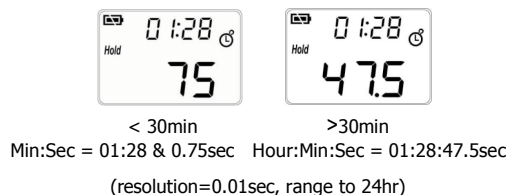
Using the Infrared Thermometer

- 1) Always make sure the sensor lens is clean without any damage.
- 2) Power on: Press the "Scan Button".
- 3) Measuring Temperature: When you press the "Scan Button", the IRT will measure the surface temperature immediately. If you hold down the "Scan Button", the reading of measurement will be continuously updated.
Note: The Distance-to-Spot Ratio (D:S) is 5:1. This means that the IRT measures a spot 1" wide at a distance of 5" from surface; or a spot of 2" wide at 10" from surface. Be sure the target area is within the field of view.
- 4) Note: Applications include the Water, Milk, Cloth, Skin, or visit www.microtempusa.com for further information.
- 5) Power off: Device will automatically power off if left idle for more than 15 seconds to extend battery life
- 6) If you have set the "clock" mode, after "power-off", room temperature & clock will be showed on the screen immediately.



Using the Stop Watch

- 1) Power on: Press the "Scan Button".
- 2) Press the "Mode Button" four times and the "stopwatch" icon starts to flash.
- 3) To start or stop stopwatch, press the "Scan Button".
To reset stopwatch, press the "Mode Button".
- 4) Press "Mode Button" to enter the thermometer function



Other Functions

MIN / MAX

Power on and press the "Mode Button" once for the Minimum (MIN) or twice for Maximum (MAX) modes. When the MIN or MAX icon flashes, press the "Scan Button" to confirm. Hold down the "Scan Button", the minimum or maximum reading of measurement will be continuous updated.



LOCK

Power on and press the "Mode Button" three times. When the LOCK icon flashes, press the "Scan Button" to confirm. This mode is particularly useful for continuous monitoring of temperatures for up to 60 minutes or until the "Scan Button" is pressed.



°F / °C

Power on and press the "Mode Button" five times. When the °F icon flashes, press the "Scan Button" to change the scale to °C. The setting will be saved when turned off.



Emissivity

Power on and press the "Mode Button" six times. When the default emissivity "95E" appears, press the "Scan Button" to modify the emissivity setting. Press "Mode Button" when complete. The setting will be saved when turned off.



Battery Replacement



Battery is low and no more measurements are possible.

The battery should be replaced immediately with a CR2032 lithium cell. The battery is located under the twist cover at the rear of thermometer. Please remember to power off the unit before replacing the battery.



A malfunction may occur if the power is on when the battery is replaced. If a malfunction occurs, restart the device. Keep the battery away from children.

Important Notes

Storage & Cleaning: The sensor lens should be kept clean at all times and stored at room temperature.

- Use only a soft cloth or cotton swab with water or medical alcohol when cleaning the lens.
- Remember to allow the lens to fully dry before using.
- The thermometer should be stored at -4 to 149 °F (-20 to +65 °C).

EMC/RFI: Readings may be affected if the unit is operated within radio frequency electromagnetic field strength of approximately 3 volts per meter, but the performance of the instrument will not be permanently affected.

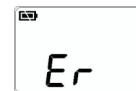
Trouble Shooting



'Hi' or 'Lo' is displayed when the temperature being measured is outside of the range of the instrument, 'Hi' when higher than +250°C (482°F) and 'Lo' when lower than -55 °C (-67°F). Please select target within specifications. If a malfunction still exists, please contact the nearest retailer.



'Er2' is displayed when the thermometer is exposed to rapid changes in the ambient temperature. 'Er3' is displayed when the ambient temperature exceeds -10 °C (14°F) or 50°C (122°F). The thermometer should be allowed plenty of time (minimum 30 minutes) to stabilize to the working/room temperature.



For all other error messages it is necessary to reset the thermometer. To reset the thermometer, waiting for the instrument power off, remove the battery and wait for a minimum of one minute, reinsert the battery and turn on. If the error message remains please contact the Service Department for further assistance.



SPARK INDUSTRIES, LLC
2363 TELLER RD. SUITE 104
NEWBURY PARK, CA 91320
www.microtempusa.com
www.sparkindustries.net