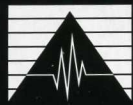


15034



**DeltaTRAK®**

***ThermoTrace® Mini***

**Infrared  
Thermometer**

- Instant non-contact surface temperature measurement
- Compact design
- Automatic clock function

# ThermoTrace Mini

## Non-Contact Infrared Thermometer

### Operation Instructions

(See enclosed User Manual for more detailed operating instructions.)

The ThermoTrace Mini Infrared Thermometer Model 15031 offers instant and accurate surface temperature measurement of solids and liquids by detecting the infrared energy emitted from the object. It has a compact design that is easy to carry and use, and automatically displays time when not reading temperature. Temperature is displayed in either °F or °C mode. For the most accurate measurement, please keep the ThermoTrace Mini as close as possible to the target when measuring the temperature.

### HOW TO USE

#### Thermometer Mode

1. Point the top of the unit in the direction of the target.
2. Press the **Meas** button to measure a temperature.
3. The reading on the LCD is the average temperature of the surface measured.
4. Clock function appears 15 seconds later by releasing the **Meas** button.

#### Clock Function

1. To adjust the Clock, press the **Meas** button, then the **Mode** button two times.
2. The digital display will begin flashing.
3. Press the **Meas** button to adjust "HOUR."
4. Press the **Mode** button to adjust "MINUTE."
5. To complete the Clock adjustment, press the **Mode** button.
6. After 15 seconds, Clock mode appears on the LCD screen.

#### °C/°F Display Unit Conversion

1. While in Thermometer mode, press the Mode button to change the temperature display unit.
2. Press the Meas button to enter the other display unit.

### SPECIFICATIONS

Temperature Range	-8°F to 230°F/ (-22°C to 110°C)
Field of View	10/10 mm (D:S=1:1)
Display Resolution	0.5°F from -10°F to 200°F; otherwise 1°F 0.5°C from -10°C to 200°C; otherwise 1°C
Response Time	Instant measurement (less than 2 sec.)
Accuracy	±1.5°F between 77° to 122°F(±.8°C between 25° to 50°C); otherwise±1.8°F (±1°C)
Battery Type	CR2032 Lithium, Life 40 hours
Weight	1.25 oz. (35 g) including battery

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 **DeltaTRAK**  
MODEL 15034

THERMOTRACE MINI  
INFRARED THERMOMETER



# Thermotrace® Mini

## Non-Contact Infrared Thermometer

### Model 15031

### User Manual

Thank you for purchasing the ThermoTrace Mini Non-Contact Infrared Thermometer, Model 15031. This thermometer also has a Clock function.

Model 15031 detects the infrared energy emitted from the surface of an object into temperature value and measures the surface temperature of solid and liquid without touching them. The temperature of gas cannot be measured by this device.

For more accurate measurement, please keep the ThermoTrace Mini as close as possible to the target when measuring a temperature.

This instruction manual contains various warnings to ensure safe usage of the product and prevent damage and injury to you and other persons. Please be sure to heed the warnings and strictly follow safety procedures.



**CAUTION:** This symbol signifies that improper usage may result in injury or damage.



**Do not disassemble this device.**



**Do not use this device under water or in a wet environment.**  
Not a waterproof device.



**Avoid direct sunlight, dust or high humidity and temperature.**  
It may cause damage or incorrect measurement.



**Avoid sudden environmental temperature drift.**  
Leave the device for a while until device and environmental Temperature becomes stable.



**Avoid powerful electrical conditions.**  
It may cause serious damage.



**Shiny targets should not be measured.**  
Shiny target reflects infrared emitted from others. Incorrect value may appear on LCD display.



**Avoid drop or violent shock.**  
Serious damage or incorrect value takes place.



**Do not use a non-standard battery.**  
Serious damage or incorrect value takes place.



**Do not touch the filter.**  
May cause incorrect values to display.

Magnetized backside



[C]: Sensor

[A]: Meas

[B]: Mode

To enter the thermometer mode, press [A].  
Clock function appears 15 seconds later by releasing [A].

#### Thermometer Mode

- 1: Point [C] in the direction of the target.
- 2: Press [A] to measure a temperature. The reading on LCD is the average temperature of surface measured.

(Notice) The target's diameter should be bigger than the distance between the target and thermometer. (When 10mm in distance, target's minimum diameter is at least 10mm)

#### Clock Function:

To adjust clock, press [A]►[B]►[B], then the digital display is flashing. Press [A] to adjust "HOUR". Press [A] again to adjust "MINUTE". To complete Clock Adjustment, press [B]. After fifteen seconds, clock model appears on LCD.

#### °C/°F Display Unit Conversion

ThermoTrace Mini has two selectable display units °C/°F.

(The conversion procedure in Clock Mode)

■ Press [A]►[B] to change the temperature display unit. Press [A] to enter the other display unit.

(The conversion procedure in Thermometer Mode)

■ Press [B] to change temperature display unit. Press [A] to enter the other display unit.

#### Error message

ThermoTrace Mini has several error messages on LCD



Out of measurement range, [Hi] or [Lo] appear on LCD. [Hi] appears when out of higher temp [Lo] appears when out of lower temperature.



[Er2] appears when rapid ambient temperature changes, [Er3] appears when ambient temperature is out of -10°C or +50°C. In both cases, leave thermometer with ambient temperature within 0°C to +40°C at least 30 minutes.



When [Er] appears on LCD, remove battery from battery compartment, then leave thermometer at least one minute. After that, insert battery into battery compartment, then push "Meas" bottom. If [Er] still appears on LCD, please ask for local dealer for service.

#### Battery Replacement

When battery change is required, please replace with a new CR2032, Lithium battery. The battery compartment is located on the backside of the thermometer.

#### Maintenance

Dust, dirt and scratches on the optical lens may cause incorrect display. Please keep the optical lens clean. To clean, lightly wipe the lens with a cotton swab or special cleaning cloth with a little ethanol alcohol.

ThermoTrace Mini is not a waterproof unit. Handle with care when cleaning. When storing, keep ThermoTrace Mini within 14°F to 122°F (-10°C to 50°C).

#### Specifications

Type-number	Model 15031
Temperature	Range -8°F to 230°F (-22°C to 110°C)
Display Resolution	0.5°F between -10° to 200° (°F or °C) otherwise 1°
Response Time	Less than 1 second
Accuracy	±1.5°F between 77°F to 122°F (±0.8°C between 25°C to 50°C) otherwise 1.8°F (±1°C)
Field of View	10/10mm (D:S=1:1)
Emissivity	0.95 (fixed)
Clock Mode	Twelve Hours Display (Accuracy: ±1 minute per week)
Battery Life	About 40 hours
Battery	CR2032, Lithium Battery
Ambient Operating Range	14°F to 122°F (-10°C to 50°C)
Storage Temp	14°F to 122°F (-10°C to 50°C)
Size	2.8 in. (L) x 1.8 in. (W) x .67 in (H) (71 x 47 x 17mm)
Weight	1.25 oz. (35g) including battery

**Warning:** The ThermoTrace Mini Infrared Thermometer contains a magnet within the casing for easy attachment to metal surfaces. Use care when placing this unit near objects susceptible to damage by magnetic field.



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