

# OS540

## Mini Infrared Thermometer

### INSTRUCTION SHEET

M36273/D900



Laser Warning  
Label

- Precise non-contact temperature measurements.
- Switchable °C/°F temperature units.
- Automatic data hold.
- Laser target pointer switchable between laser dot and circle.

#### 1. SAFETY

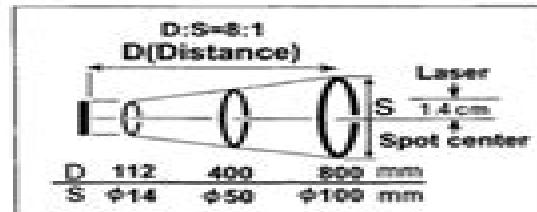
- Use extreme caution when the laser beam is turned On.
- Do not let the beam enter your eye, another person's eye or the eye of an animal.
  - Be careful not to let the beam on a reflective surface strike your eye.
  - Do not operate the laser light beam in presence of any gas which can explode.

#### 2. GENERAL SPECIFICATIONS

Display backlighting	LCD display with
Measurement Ranges	-4 to 785°F (-20 to 420°C)
Sample rate	1 sec. approx.
Power off	Automatic shutdown after 5 seconds.
Operating Temperature	0°C to 50°C (32°F to 122°F).
Operating Humidity	Max. 80% RH.
Power Supply	9V battery
Power Current	Approx. 12mA DC
Weight	120g/5.4oz.
Size	16.7 x 1.7 x 1.6" (170 x 44 x 40mm)

#### LASER SIGHT

Wave length(color)	675nm (red)
Operating Distance	Up to 30ft Max.
Output Optical Power	<1mW, Class II Laser Product
Beam Diameter	—
Beam Divergence	—
Power Indicator	LCD icon



#### RANGE SPECIFICATIONS

Resolution/Ranges	1°C/F -4 to 785°F (-20 to 420°C)
Accuracy	±2% of reading (-20 to 100°C) or ±2°C whichever is greater. 101-420°C ±3% of reading or ±3°C whichever is greater.
Accuracy (holes)	1. Accuracy specified is for temperature. 2. Accuracy specified is for emissivity of 0.95.
Emissivity settings	0.95 fixed
Distance Factor	D/S = Approx. 8:1 (D = distance, S = Spot)

#### 3. NON-CONTACT IR MEASUREMENT OPERATION

##### a. Power ON/OFF

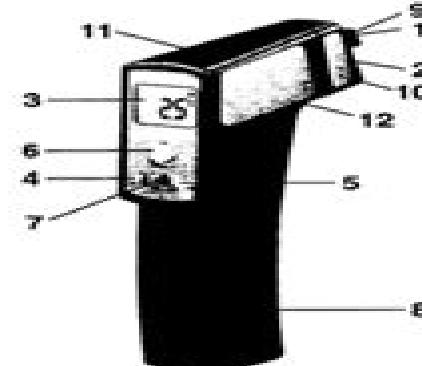
The meter automatically powers when the Measure key is pressed. Press the Measure key to take a reading. Read the measured temperature on the LCD. The meter powers OFF automatically approximately 5 seconds after the Measure key is released.

##### b. Selecting Temperature units (C/F)

Select temperature units (degrees C or F) by first pressing the Measure key and then pressing the C/F key. The units will blink on the LCD. Press the C/F key until the desired units are shown on the LCD.

##### c. Data Hold

This meter automatically holds the last temperature reading on the LCD for five seconds after the Measure key is released. No extra key presses are necessary to freeze the displayed reading.



#### FRONT PANEL DESCRIPTION

- |                         |                            |
|-------------------------|----------------------------|
| 1. Laser pointer beam   | 9. Laser Dot/Circle Switch |
| 2. IR sensor            | 10. Laser Dot/Circle Label |
| 3. LCD Display          | 11. Laser Warning Label    |
| 4. C/F select key       | 12. Field of View Label    |
| 5. Backlight select key |                            |
| 6. Measure key          |                            |
| 7. Laser key            |                            |
| 8. Battery compartment  |                            |

##### d. Backlight LCD

Select backlight by first pressing the Measure key and then pressing the BACKLIGHT key. Repeat the procedure to turn the backlight OFF.

##### e. Laser Pointer

To turn the laser pointer ON, press the LASER key while pressing the Measure key. Repeat the procedure to turn the laser OFF. While the laser is on, you can switch between laser dot and circle by moving a lever in front of the optics. Laser dot is an indication of the center of the field of view. Laser circle is an indication of the perimeter of the field of view.

##### f. Measurement Considerations

Hold the meter by its handle, point the IR Sensor toward the object whose temperature is to be measured. The meter automatically compensates for temperature deviations from ambient temperature. Keep in mind that it will take up to 30 minutes to adjust to wide ambient temperature changes. When low temperatures are to be measured followed by high temperature measurements, some time (several minutes) is required after the low (and before the high) temperature measurements are made. This is a result of the cooling process which must take place for the IR sensor.

##### 4. BATTERY REPLACEMENT

A flashing display is the indication that the battery voltage has fallen into the critical region (5.5 to 7.5 V). Reliable readings can be obtained for several hours after the first appearance of the low battery indication. Open the Battery Compartment and remove the battery then install a new battery and replace the cover.

# Omega Laser User Manual

**Lingsheng Yao**

## Omega Laser User Manual:

Scientific and Technical Aerospace Reports ,1990    Lasers & Optronics ,1998    **Advances in Cryogenic Engineering** Peter Kittel,2013-11-11 The Oregon Convention Center Portland Oregon was the venue for the 1997 Cryogenic Engineering Conference The meeting was held jointly with the International Cryogenic Materials Conference John Barclay of the University of Victoria and David Smathers of Cabot Performance Materials were conference chairmen Portland is the home of Northwest Natural Gas a pioneer in the use of liquid natural gas and Portland State University where cryogenic research has long been conducted The program consisted of 350 CEC papers considerable more than CEC 95 This was the largest number of papers ever submitted to the CEC Of these 263 papers are published here in Volume 43 of Advances in Cryogenic Engineering Once again the volume is published in two books CEC PAPER REVIEW PROCESS Since 1954 Advances in Cryogenic Engineering has been the archival publication of papers presented at the biennial CEC ICMC conferences The publication includes invited unsolicited and government sponsored research papers in the research areas of cryogenic engineering and applications All of the papers published must 1 be presented at the conference 2 pass the peer review process and 3 report previously unpublished theoretical studies reviews or advances in cryogenic engineering

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