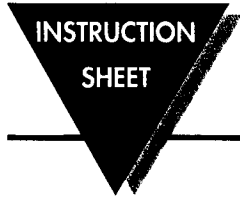


OS540

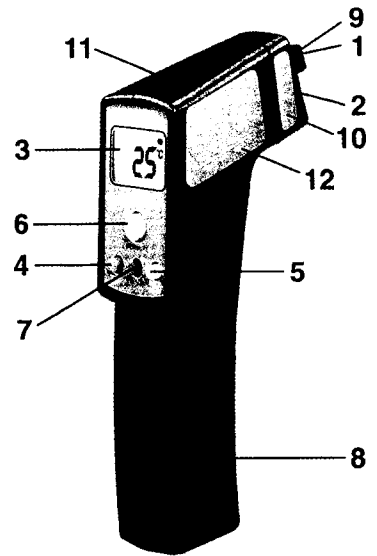
Mini Infrared Thermometer



M36Z3/0900



Laser Warning Label



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 | |

- 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.

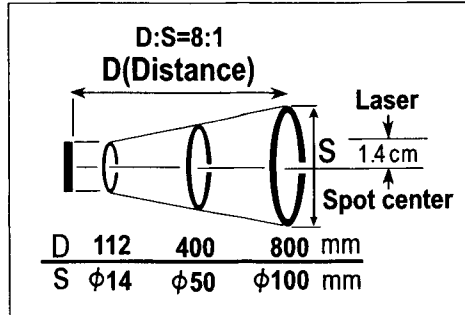
! Do not operate the laser light beam in presence of any gas which can explode.

2. GENERAL SPECIFICATIONS

Display backlighting	LCD display with
Measurement Ranges	-4 to 788°F (-20 to 420°C)
Sample rate	1 sec. approx.
Power off	Automatic shutoff 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/6.4oz.
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 788°F (-20 to 420°C)
Accuracy	±2% of reading (-20~100°C) or ±2°C whichever is greater. 101~420°C ±3% of reading or ±3°C whichever is greater.
Accuracy notes	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.

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

Holding 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 I R sensor

4. BATTERY REPLACEMENT

A flashing display is the indication that the battery voltage has fallen into the critical region (6.5 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.

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OMEGA ENGINEERING, INC. warrants this unit to be free of defects in materials and workmanship for a period of **13 months** from date of purchase. OMEGA's WARRANTY adds an additional one (1) month grace period to the normal **one (1) year product warranty** to cover handling and shipping time. This ensures that OMEGA's customers receive maximum coverage on each product.

If the unit malfunctions, it must be returned to the factory for evaluation. OMEGA's Customer Service Department will issue an Authorized Return (AR) number immediately upon phone or written request. Upon examination by OMEGA, if the unit is found to be defective, it will be repaired or replaced at no charge. OMEGA's WARRANTY does not apply to defects resulting from any action of the purchaser, including but not limited to mishandling, improper interfacing, operation outside of design limits, improper repair, or unauthorized modification. This WARRANTY is VOID if the unit shows evidence of having been tampered with or shows evidence of having been damaged as a result of excessive corrosion; or current, heat, moisture or vibration; improper specification; misapplication; misuse or other operating conditions outside of OMEGA's control. Components which wear are not warranted, including but not limited to contact points, fuses, and triacs.

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Direct all warranty and repair requests/inquiries to the OMEGA Customer Service Department. **BEFORE RETURNING ANY PRODUCT(S) TO OMEGA, PURCHASER MUST OBTAIN AN AUTHORIZED RETURN (AR) NUMBER FROM OMEGA'S CUSTOMER SERVICE DEPARTMENT (IN ORDER TO AVOID PROCESSING DELAYS).** The assigned AR number should then be marked on the outside of the return package and on any correspondence.

The purchaser is responsible for shipping charges, freight, insurance and proper packaging to prevent breakage in transit.

FOR **WARRANTY** RETURNS, please have the following information available BEFORE contacting OMEGA:

1. Purchase Order number under which the product was PURCHASED,
2. Model and serial number of the product under warranty, and
3. Repair instructions and/or specific problems relative to the product.

FOR **NON-WARRANTY** REPAIRS, consult OMEGA for current repair charges. Have the following information available BEFORE contacting OMEGA:

1. Purchase Order number to cover the COST of the repair,
2. Model and serial number of the product, and
3. Repair instructions and/or specific problems relative to the product.

PATENT NOTICE: U.S. PAT. B1 5,368,392; 5,524,984; 5,727,880; 5,465,838; 5,823,678; 5,823,679, Other U.S. and Foreign Patents Pending.

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