6.Measurment Operation

6-1.Hold the meter by its Handle Grip and point it toward the surface to be measured.

6-2.Pull and hold the Trigger to turn the meter on and begin testing. The display will light if the battery is good. Replace the battery if the display does not light.

6-3.While measuring, the SCAN display icon will appear in the upper left hand corner of the LCD.

6-4.While continuing to pull the trigger:

Push the button once to turn on the laser Laser/ Backlight pointer .When the laser is on, the laser icon ' △ ' will appear on the LCD.

Push the button two times Laser/ Backlight to turn on the backlight.

Push the button three times to turn the Laser/ Backlight laser

Push the button four times to turn both Laser/ Backlight the laser and backlight off.

Select the temperature units (°C or °F) using the °C/ °F button.

Select the Max/Min mode using the Max/Min button.

6-5.Release the rigger and th t e HOLD display icon will appear on the LCD indicating that the reading is being held.

6-6.The meter will automatically power off on approximately 8 seconds after the trigger is released.

Note: 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 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.

7.Battery Replacement

7-1.As battery power is not sufficient,LCD will display ' ▣ ' replacementwith one new battery type 9V is required.7-2.Open battery cover, then take out thebattery from instrument and replacewith a new 9-Volt battery and placethe battery cover back.

Low Battery Indicator

9V Battery

Open the battery cover
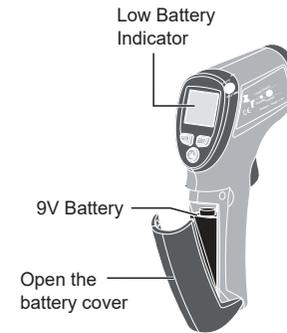
8.Notes

8-1.How it Works

Infrared thermometers measure the surface temperature of anobject. The unit's optics sense emitted , reflected, and transmitted energy, which is collected and focused onto a detector. The unit's electronics translate the information into a temperature reading which is display on the unit. In units with a laser, the laser is used for aiming purposes only.

8-2.Field of View

Make sure that the target is larger than the unit't spot size. The smaller the target, the closer you should be to it. When accuracy is critical, make sure the target is at least twice as large as the spot size.

8-3.Distance & Spot Size

As the distance (D) from the object increases, the spot size (S) of the area measured by the unit becomes larger.

8-4.Locating a hot Spot

To find a hot spot aim the thermometer outside the area of interest,then scan across with an up and down motion until you locate hot spot.

8-5.Reminders

◆ Not recommended for use in measuring shiny or polished metal surfaces (stainless steel, aluminum, etc.).

◆ The unit cannot measure through transparent surfaces such as glass. It will measure the surface temperature of the glass instead.

◆ Steam, dust, smoke, etc. , can prevent accurate measuremen by obstructing the unit's optics.

INFRARED THERMOMETER

0210-G260
User Manual

Laser Targeting
8:1

INSIZE

www.insize.com

PLEASE SCAN QR CODE TO WATCH THE OPERATION VIDEO OF PRODUCTS.

VIDEO

Please read this manual before switching the unit on.
Important safety information inside.

1.Safety

◆ Use extreme caution when the laser beam is turned on.
◆ Do not let the beam enter your eyes, another person's eyes or the eyes of an animal.
◆ Be careful no to let the beam on a reflective surface strike your eyes.
◆ Do not allow the laser light beam impinge on any gas which can explode.

CAUTION

LASER RADIATION
AVOID DIRECT EYE EXPOSURE

MAXIMUM OUTPUT < 1mW
WAVELENGTH 630-670nm
CLASS 2 LASER PRODUCT
EN 60825-1:1994/A11:1996/A2:2001/A1:2002

2.Features

◆ Precise non-contact measurements
◆ Built-in laser pointer
◆ User selectable ºC or ºF
◆ MAX/MIN temperature display
◆ Trigger lock
◆ Automatic Data Hold & Auto power off
◆ Automatic selection range and Display Resolution 0.1ºC(0.1ºF)
◆ The meter at 8 inches away measure 1 inch target
◆ Backlit LCD display

Wide range application:
Food preparation, Safety and Fire inspectors, Plastic molding,Asphalt, Marine and screen printing, measure ink and dryertemperature, Diesel and Fleet maintenance.

Field of view
The infrared thermometer's feld of view is 8:1, meaning that if the infrared themometeris 8 inches from the target, the diameter of the object under test must be at least 1 inch . Other distances are shown below in the feld of vew diagram. Refer to the chart printed on the meter for more information.

Laser Beam
Sensor Beam

200 400 800

Distance(D) to Spot Size(S)
D:S=8:1
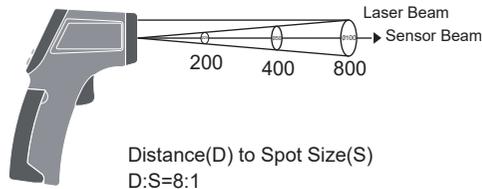
3.Specifications
◆ General specifications

| Measuring range	-30°C to 260°C / -22°F to 500°F
Response ime	less than 1 second
Over range indication	LCD will show '----'
Polarity	Automatic (no indication for positive polarity) Minus (-) sign for negative polarity
Emissivity	0.95fixed value
Field of view	D/S=Approx.8:1 ratio(D=distance,S=spot) (has 90% encircled energy at the focal point)
Diode laser	Output <1mW, Wavelength 630~670nm, class 2 (II) Laser product
Spectral response	6~14µm
Power off	Automatic shut offafter 8 seconds, approx
Operating empterature	0°C to 50°C/32°F to 122°F
Storage empterature	-20°C to 60°C/-4°F to 140°F
Relative humidity	10%~90%RHoperating,<80%RHstorage
Power supply	9V battery, NEDA 1604A or IEC 6LR61, or equivalent
Weight	180 g
Size	82.0 x 41 .5 x 160.0 mm

◆ Infrared thermometer specifications

Range	Resolution	Accuracy
-30°C to 0°C (-22°F to 32°F)	0.1°C/0.1°F	±4°C / ±7°F
0°C to 260°C(32° Fto 500°F)		±2% of reading or ±2ºC / ±4°F

Note:
Accuracy is given at 18°C to 28°C (64°C to 82°C), less than 80% RH.
Emissivity:
0.95 fixed value
Field of view:
Make sure that the target is larger than the unit's spot size.The smaller the target, the closer you should be to it. Whenaccuracy is critical, make sure the target is at least twice aslarge as the spot size.

4.Front panel description

1-IR sensor
2-Laser pointer beam
3-LCD display
4-°C / °F select key
5-Max / Min select key
6-Laser & backlight select key
7-Measurement rigger t
8-Battery cover
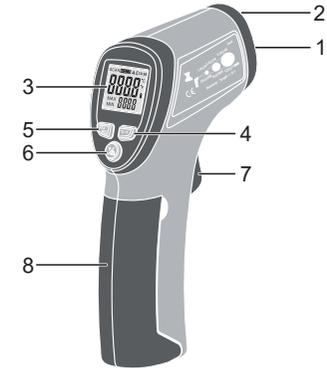
5.Indicator

1-Measuring indication
2-Data hold
3-Laser point
4-Fixed emissivity (0.95) scan symbol
5-Temperature °C(Celsius) / °F(Fahrenheit)
6-LOW battery indicator
7-MAX / MIN readout
8-MAX / MIN symbol
9-Digital readout

SCAN HOLD ⚠ ℇ=0.95

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V0