



Model: EM528

NON-CONTACT INFRARED THERMOMETER

FEATURES

This thermometer is hand-held, professional non-contact infrared thermometer. It is easy to use and features durable construction, high accuracy, wide measurement range, laser sighting, backlight, MAX/MIN/DIF/AVG temperature display, data hold, high and low alarm, adjustable emissivity, and automatic power-off.

SPECIFICATIONS

NON-CONTACT INFRARED THERMOMETER

This cable length meter can be used to measure spooled wire (or cable). After you connect the meter to the two ends of the wire to be measured, the display will show the length of the wire quickly. In normal measurement mode, the meter can measure copper or aluminum wires of 20 kinds of wire gauges (0.1mm² - 240mm²). In laser select mode, you can save up to 8 parameters for 8 kinds of wire, after saving the resistance of a user wire of a certain length, user can measure the length of the same kind wire by using this saved parameters. In addition, the meter can measure resistance accurately. It is a very useful tool for wholesale dealer, electrical department, electrical contractors, building trades, and etc.

- 1 Built-in laser pointer
- 2 High and low alarm
- 3 Precise non-contact measurements
- 4 High distance to target ratio (D : S = 12 : 1)
- 5 Measurement range: -50°C to 1350°C
- 6 MAX, MIN, DIF, AVG temperature displays, backlit display



1 Built-in laser pointer

This cable length meter can be used to measure spooled wire (or cable). After you connect the meter to the two ends of the wire to be measured, the display will show the length of the wire quickly. In normal measurement mode, the meter can measure copper or aluminum wires of 20 kinds of wire gauges (0.1mm² - 240mm²). In laser select mode, you can save up to 8 parameters for 8 kinds of wire, after saving the resistance of a user wire of a certain length, user can measure the length of the same kind wire by using this saved parameters. In addition, the meter can measure resistance accurately. It is a very useful tool for wholesale dealer, electrical department, electrical contractors, building trades, and etc.

• Laser Pointer



• Built-in M6 Nut

You can fix the thermometer on a suitable support which has a M6 bolt to be mated with the thermometer's built-in M6 nut.



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High and low alarm

This cable length meter can be used to measure spooled wire (to cable). After you connect the meter to the 1 of the wire quickly, in normal measurement mode, the meter can measure copper or aluminum.

- High alarm value (HAL)
- Low alarm value (LAL)

200m (approx) for meter can measure a 100m (approx) wire of the wire quickly, in normal.



3

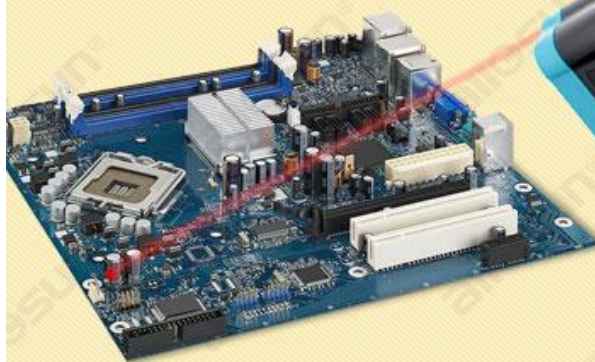
Precise non-contact measurements

This cable length meter can be used to measure spooled wire (to cable). After you connect the meter to the 1 of the wire quickly, in normal measurement mode, the meter can measure copper or aluminum.



OUTPUT < 1mW

WAVELENGTH 630nm - 670nm

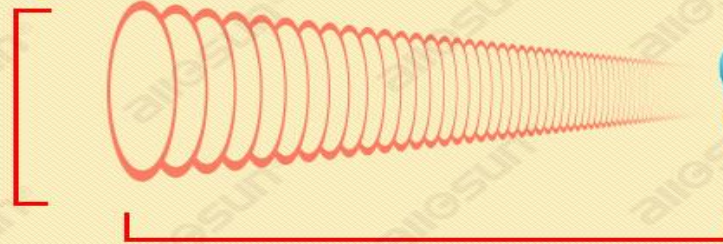




High distance to target ratio ($D : S = 12 : 1$)

This cable length meter can be used to measure spooled wire (or cable). After you connect the meter to the end of the wire quickly, its internal measurement module can measure copper or aluminum.

Spot size



Distance

Distance to Spot size = 12 : 1

Note:

Make sure that the object to be measured is larger than the thermometer's spot size. The smaller the object, the closer you should be to it.

When accuracy is critical, make sure that the object is at least twice as large as the spot size.



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Measurement range: -50°C to 1350°C

This cable length meter can be used to measure spotted wire (for cables). After you connect the meter to the 1 of the wire quickly, the central measurement module the meter can measure copper or aluminum.

 $^{\circ}\text{C}/^{\circ}\text{F}$ switchable**Celsius**

Range	Accuracy
-50°C to -20°C	$\pm 5^{\circ}\text{C}$
-20°C to 200°C	$\pm (1.5\% \text{ of reading} + 2^{\circ}\text{C})$
200°C to 538°C	$\pm (2.0\% \text{ of reading} + 2^{\circ}\text{C})$
538°C to 1350°C	$\pm (3.0\% \text{ of reading} + 5^{\circ}\text{C})$

Fahrenheit

Range	Accuracy
-58°F to -4°F	$\pm 9^{\circ}\text{C}$
-4°F to 392°F	$\pm (1.5\% \text{ of reading} + 3.6^{\circ}\text{F})$
392°F to 1000°F	$\pm (2.0\% \text{ of reading} + 3.6^{\circ}\text{F})$
1000°F to 2462°F	$\pm (3.0\% \text{ of reading} + 9^{\circ}\text{F})$

Emissivity adjustable from 0.1 to 1.0

Emissivity describes the energy-emitting characteristics of materials. Most (90% of typical applications) organic materials and painted or oxidized surfaces have an emissivity of 0.95 (preset in the thermometer).

Emissivity Values

Substance	Emissivity	Substance	Emissivity
Asphalt	0.90 - 0.98	Cloth (black)	0.98
Cement	0.94	Human skin	0.98
Cement	0.96	Lather	0.75-0.80
Sand	0.90	Charcoal (powder)	0.96
Earth	0.92-0.96	Lacquer	0.80-0.95
Water	0.92-0.96	Lacquer (matt)	0.97
Ice	0.96-0.98	Rubber (black)	0.94
Snow	0.83	Plastic	0.85-0.95
Glass	0.90-0.95	Timber	0.90
Ceramic	0.90-0.94	Paper	0.70-0.94
Marble	0.94	Chromium oxides	0.81
Plaster	0.80-0.90	Copper oxides	0.78
Mortar	0.89-0.91	Iron oxides	0.78-0.82
Brick	0.93-0.96	Textiles	0.90



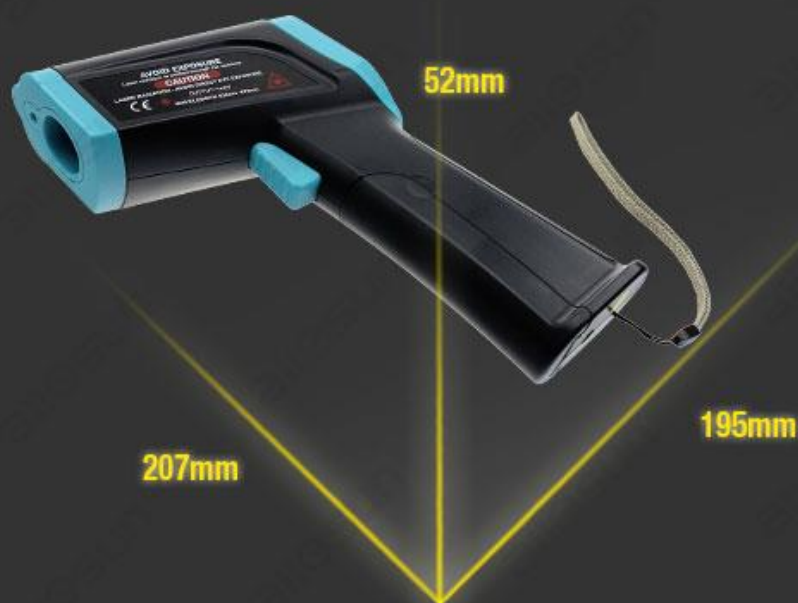
MAX, MIN, DIF, AVG temperature displays, backlit display

This cable length meter can be used to measure spooled wire (or cable). After you connect the meter to that of the wire quickly. In normal measurement mode the meter can measure copper or aluminum.



SPECIFICATION

This cable length meter can be used to measure spooled wire (or cable). After you connect the meter to the two ends of the wire to be measured, the display will show the length of the wire quickly. In normal measurement mode, the meter can measure copper or aluminum wire of 20 kinds of wire gauges (0.10mm² - 240mm²). In user select mode, user can save up to 8 parameters for 8 kinds of wire, after saving the resistance of a user wire of a certain length, user can measure the length of the same kind wire by using this stored resistance. In addition, the meter can measure resistance accurately. It is a very useful tool for wire/cable retailer, electricity department, electrical contractors, building trades, and etc.



Temperature Range	-50°C to 1350°C (- 58°F to 2462°F)
Response Time	< 1 sec
Spectral Response	8μm to 14μm
Emissivity	Adjustable from 0.1 to 1.0 (0.95 default value)
Operating Environment	Temperature: 0°C to 40°C
	Relative humidity: 10% to 95% RH,
	noncondensing @ up to 30°C
Storage Temperature	-20°C to 50°C
Weight	about 325g (including battery)
Size	20.7 X 19.5 X 5.2cm
Battery	9V battery, 6F22 or equivalent, 1 piece
Distance to Spot Ratio	12 : 1

PRODUCT DETAILS

This ultralight meter can be used to measure speed, wind or force. When you connect the meter to the low voltage power source, the display will show the weight of the wire being used. The meter can measure speed in knots or 20 knots or wind speed in knots. It also has a wind speed mode, and can show wind speed in knots or mph. After using the meter for a long time, you can measure the weight of the wire. It also has a wind speed mode, and can show wind speed in knots or mph. After using the meter for a long time, you can measure the weight of the wire. It also has a wind speed mode, and can show wind speed in knots or mph.



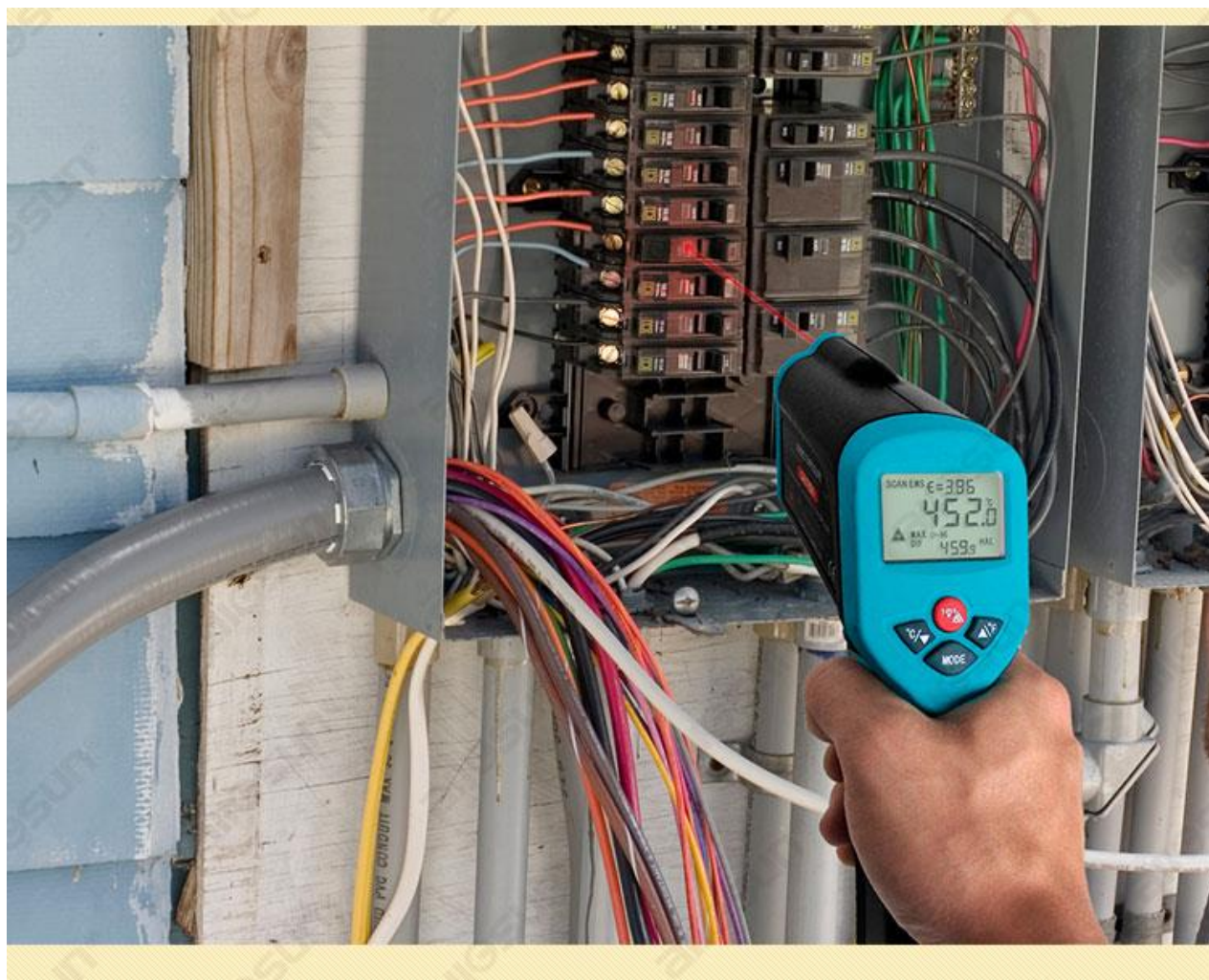


APPLICATION DRAWING

This video length reader can be used on a single horizontal wire for testing. When you connect the reader to the horizontal wire, the display will show the length of the wire directly. In normal measurement mode, the reader can measure length of aluminum wire, or diameter of wire gauge (0.1mm-1.0mm). In test mode (mode), you can use it to measure the length of wire, after setting the standards of a wire wheel or a cable length. User can measure the length of the wire without requiring the standard wire. The reader can measure resistance according to it in every position for the wire reader, exactly. Application: electrical contractors, building trades, and etc.







PRODUCT PACKAGING





Non-contact Infrared Thermometer Users Manual

Read this manual thoroughly before use

ACCESSORIES