IR-91

INFRA RED TEMPERATURE CONTROLLER

The IR thermometer is capable of non-contact (infrared) temperature measurements at the touch of a button. The built-in laser pointer increases target accuracy while the backlight LCD and handy push-buttons combine for convenient, ergonomic operation.

The Non-contact Infrared Thermometers can be used to measure the temperature of objects' surface that is improper to be measured by traditional (contact) thermometer (such as moving object, the surface with electricity current or the objects which are uneasy to be touched.)
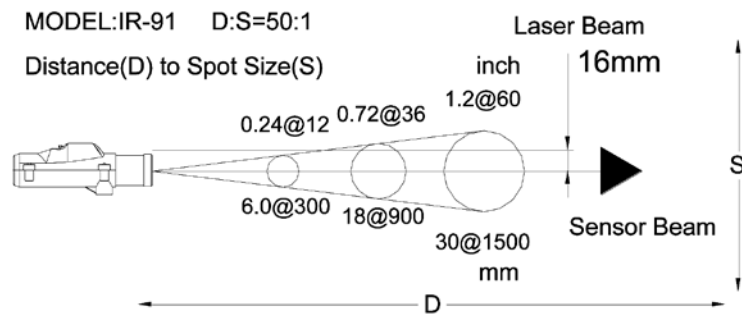
FEATURES

- Precise non-contact measurements
- High distance to target ratio measures smaller surface areas at greater distances
- Widest temperature range
- Emissivity Digitally adjustable from 0.10 to 1.0
- Backlight LCD display
- Built-in laser pointer
- Automatic selection range and Display Resolution 0.1°C(0.1°F)
- Heating and Cooling mode control output

WIDE RANGE APPLICATION:

Food preparation, Safety and Fire inspectors, Plastic molding, Asphalt, Marine and Screen printing, measure ink and Dryer temperature, HVAC/R, Diesel and Fleet maintenance.

DISTANCE & SPOT SIZE

As the distance (D) from the object increases, the spot size (S) of the area measured by the unit becomes larger. The relationship between distance and spot size for each unit is listed below. The focal point for each unit is 914mm (36"). The spot sizes indicate 90% encircled energy

MODEL:IR-91   D:S=50:1

Distance(D) to Spot Size(S)

Laser Beam 16mm

inch
1.2@60
0.24@12 0.72@36
6.0@300 18@900
30@1500
mm

Sensor Beam

SPECIFICATIONS

Temperature range	-50 to 900° C (-58 to 1652°F) 50:1
Display resolution	<1000 0.1°C(0.1°F) > =1000 1°F
Accuracy	for targets:
	Assumes ambient operating temperature of 23 to 25°C (73 to 77°F)
	-50 to 20°C(-58 to 68°F): ±5°C(±9°F)
	20 to 500°C (68 to 932°F): ± 2.5% of reading+ 2.5°C (±4.5°F);
	500 to 900°C (932 to 1632°F): ± 3.0% of reading+.3°C (±5.4°F);
Response time	Less than 1 second
Spectral response	8~14um
Emissivity	Digitally adjustable from 0.10 to 1.0
Over range indication	LCD will show "----".
Polarity	Automatic (no indication for positive polarity); Minus (-) sign for negative polarity
Diode laser	output <1mW,Wavelength 630~670nm, Class 2(II) laser product
Operating temp.	0 to 50°C (32 to 122°F)
Storage temp.	–20 to 60°C (-4 to 140°F)
Relative humidity	10%~90%RH operating, <80%RH storage
Power supply	230V AC 50HZ or 12~24V DC
Weight	215g
Size	75*74*98mm
Safety	" CE " Comply with EMC

NOTE:

• **Accuracy:** Given at 18 to 28°C (64 to 82°F), less than 80 % RH.