E instruments

IRtech Pro 880L

Portable Infrared Thermometers for maintenance applications

IRtech
Infrared Technology

- Temperature range -30 to 1300°C
- Optical resolution 60:1
- Dual laser pointer
- Thermocouple input (minidin)
- Large LCD display
  3 colors backlight
- Emissivity settings
- Alkaline 9V batteries
- USB interface with
  IR Windows software
- Datalogger up to 2000 measures
- Max, Min, Alarms audible features
- Report of Calibration

CE

Each body, at temperatures above the absolute zero (-273°C or 0K),emits energy as electromagnetic radiation. When temperature rises,the intensity of this infrared energy increases.The temperature of the body surface can therefore be determined by measuring the intensity of this energy in a small spectral band: the infrared region. The instruments used to measure this energy and to calculate the related temperature are called infrared thermometers or non-contact thermometers.
Temperature measurements of a liquid or gaseous compound have been successfully made with thermoelectric or expansion thermometers, thanks to the good thermal exchange of the sensor with the fluid. With solid bodies, a good thermal exchange is difficult to be obtained and an additional measuring error should be considered. When the target is moving or is electrically hazardous, a contact temperature measurement can't be made. Non-contact IR temperature measurement could be the only solution to the above application problems.

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Features are related to all models equipped with full configuration. On next pages you can find specific details.

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IRtech Pro 880L

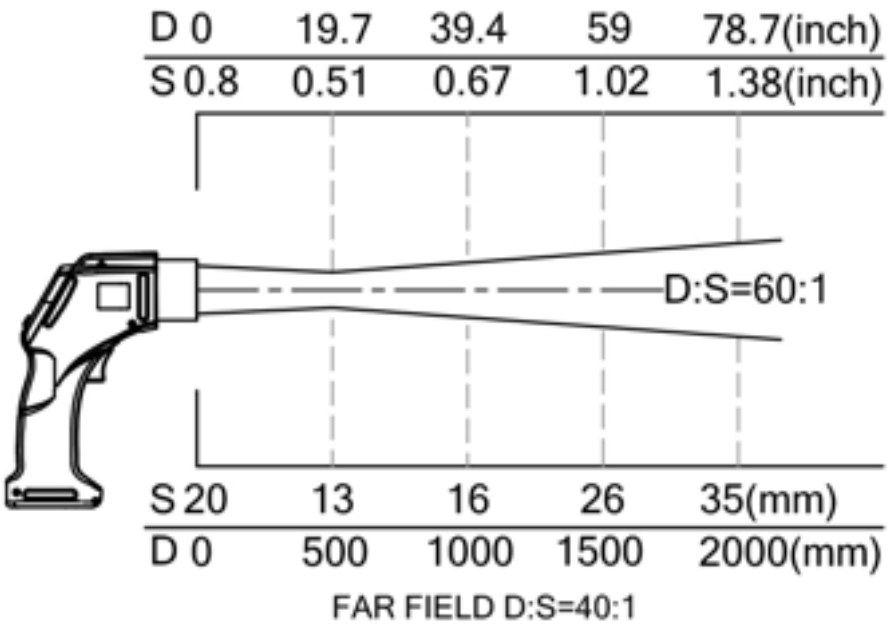
Portable Infrared Thermometers for maintenance applications

Models

Model	Code	Range	Optics	D:S	Laser
880L	S	-30 to 1300°C	16mm@1000mm	60:1	Dual

880L Accuracy ±1% or ±1°C Repeatability ±(0,5%+0,5°C) Response time : 300mS

*At 23±5°C, emissivity =0.95



Common specifications

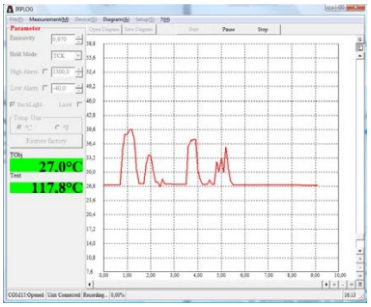
Emissivity: Adjustable 0.10 - 1.00
Digital interface:
USB (cable and software included)
Battery: 9V Alkaline battery or USB
Battery life:
12 hours with laser/backlight on
24 hours without laser and backlight
Laser: Class II (<1mW) dual
Tc :Thermocouple K input minidin std connector -40°C to +400°C, Acc ±1%or±1°C
Functions: Max, Min and Scan/Hold
Alarms: High and Low adjustable by keyboard with audible and visible with enable/disable
Working temperature/humidity:
0 to +50°C 10-95% RH non condensing
Dimensions : 210x160x70 mm
Weight : 450gr

Optics and Tc measurement
IRtech Pro L has the optical body in metal that grant advanced and accurate optics with a rugged protection for the lens. The minidin input allow connection for any thermocouple Tc K probe so it can be used to compare the non contact reading. It can be displayed simultaneously on Lcd display

Alarms
IRtech Pro L has two programmable setpoin of audible and visible alarm. In standard measurement the backlight is set to Green. If high level of alarm will be active the backlight is set to Red. If low level of alarm will be active the backlight is set to Blue.
Alarms can be disabled if not used.

- **Memory, USB and Windows Software**

IRtech Pro L has 2000 non volatile memory where you can store temperature values. It can be downloaded on PC with the sofware with ID tag for each data.. IRPlog can work on line with graph view. Data can be save in excel format. Instrument setup can be programmed.



Ordering Code

	Code	Model
Pro (L)		includes rigid carrying case,9V battery, USB cable, Software, Thermcouple K & instruction manual
	Table A	**Range**
	880L	-30 - 1300°C
	Table B	**Optics**
	S	See table
	Table C	**Report of Calibration**
		none
	CC	EA traceable with data
Pro	**880L**	**S** *Typical ordering code*

Specifications may change without notice