

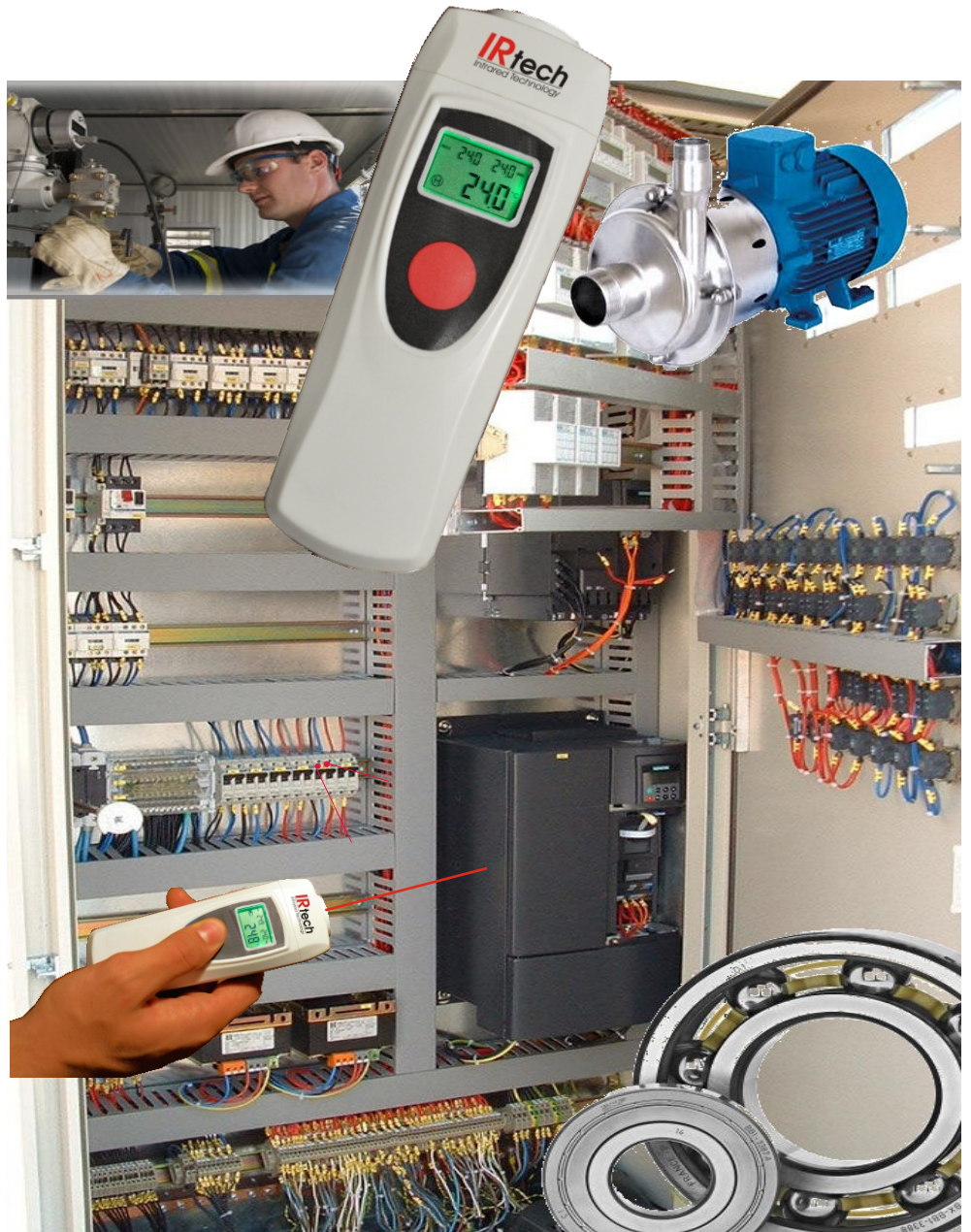
E instruments

IRtech Pro 100L

Professional Portable Infrared Thermometer

IRtech
Infrared Technology

- Temperature range -30 to +600°C
- Optical resolution 15:1 with professional germanium lens for granted temperature stability
- Laser pointer
- Large LCD display 3 colors backlight
- Emissivity settings (EM)
- Alkaline 2xAAA batteries
- USB interface with IR Windows software (optional)
- Max, Min, Alarms audible features
- Bluetooth with App (optional)



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.

www.eigroup.biz

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

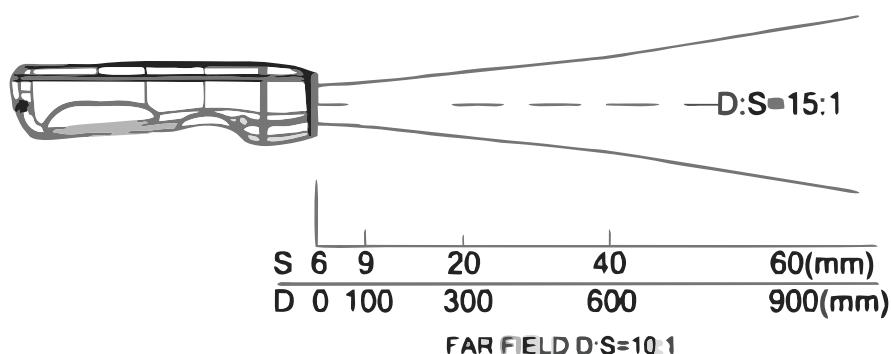


Models

Model	Code	Range	Optics	D:S	Laser
100L		-30 to 600°C	20mm@300mm	15:1	Single

880L Accuracy $\pm 1\%$ or $\pm 1^\circ\text{C}$ Repeatability $\pm(0,5\%+0,5^\circ\text{C})$ Response time : 300ms

*At $23\pm 5^\circ\text{C}$, emissivity = 0.95



Common specifications

Emissivity: Adjustable 0.10 - 1.00 (EM opt.)
Preset 0.95

Digital interface:

USB (EM opt. cable and software)

Bluetooth (BT opt. + App)

Battery: 2xAA Alkaline battery or USB

Battery life:

20 hours with laser/backlight on

40 hours without laser and backlight

Laser: Class II (< 1mW) single

Functions: Max, Min and Scan/Hold

Alarms: High and Low adjustable (EM opt.)

with audible and visible with enable/disable

Working temperature/humidity:

0 to $+50^\circ\text{C}$ 10-95% RH non condensing

Dimensions : 140x50x35 mm

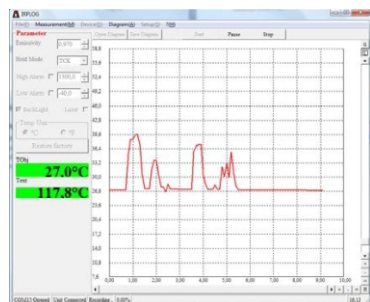
Weight : 120gr



• USB and Windows Software (optional) • Bluetooth and Android App (optional)

IRtech Pro 100L has USB interface for emissivity/alarm settings and real time graph. Data can be save in excel format. Instrument setup can be programmed.

IRtech Pro 100L has Bluetooth interface for connection to a Smartphone using an Android App. Real time temperature reading, image store with camera picture to be shared via mail or sharing software.



• Alarms

IRtech Pro L has two programmable setpoint 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.



Ordering Code

Code	Model
Pro (L)	includes instruments with laser pointer 2xAA batteries & instruction manual
Table A	
100L	-30 - $+600^\circ\text{C}$
Table B	
EM	none
BT	USB cable+Software
	Bluetooth+App
Table C Report of Calibration	
CC	none
	EA traceable with data
Pro	100L

Typical ordering code

Specifications may change without notice