EiUK

*IR*tech Pro 1100 1330 2200

Advanced Portable Infrared Thermometers for demanding Industrial applications

*IR*tech
Infrared Technology

- Temperature range up to 1800°C
- Optical resolution up to 300:1
  8-14μm, 1μm, 1.6μm
  Spectral response
- Dual laser pointer
- Telescope sighting
- Large LCD display
  3 colors backlight
- Emissivity settings
- Rechargeable batteries
- USB interface with
  IR Portable Windows software
- Datalogger up to 2000 measures
- Max, Min, Alarms audible features

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.

Typical application of **IR*tech*** portable thermometers is to control temperature where an increase of its value means a possible machine wearing, aging, faulting, etc.

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

IRtech
Infrared Technology

IRtech Pro 1100 1330 2200

Advanced Portable Infrared Thermometers for demanding Industrial applications

Models

Models	Pro 1100	Pro 1330	Pro 2200
Temperature range	0 - 1300 °C	385 - 1600 °C	650 - 1800 °C
Accuracy	±1% or ±2°C *	±(0,3% rdg or ±1°C) *	±(0,3% rdg or ±1°C) *
Repeatability	±0,5% or ±1°C *	±(0,1% or ±1°C) *	±(0,1% or ±1°C) *
D:S target ratio	120:1	300:1	300:1
Response time	300 mS	100 mS	100 mS
Spectral response	8-14 µm	1,6 µm	1 µm
Laser pointer	single	double	double
Focus point	100mm @ 12m	12mm @ 3,6m	12mm @ 3,6m

* whichever is greater

Storage temperature:
-20°C to +60°C (no battery)

Dimensions and weight:
264 mm x 203 mm x 60 mm - 990 g nett

Memory:
2000 measurements

LCD Backlight:
3 colors alarm

Common specifications

Emissivity:
Pre-set to 0.95. Adjustable 0.100 - 1.000

Working temperature:
0 to +50°C / 10-95% RH non condensing

Digital interface:
USB

Battery:
NiMH rechargeable battery

Battery life:
5 hours with laser and backlight on
25 hours without laser and backlight

Laser:
Class II (<1mW) single or double

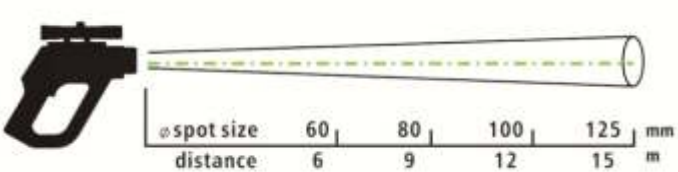
Sighting scope:
Adjustable standard

Functions:
Max, Min and Scan/Hold

Alarms:
High and Low with audible and visible

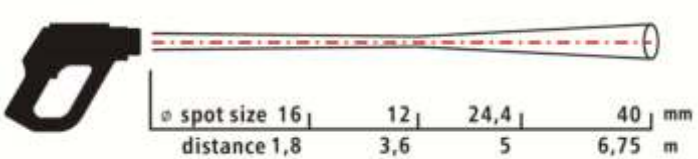
Optical specifications

Pro 1100



D:S = 120:1

Pro 1330
Pro 2220



D:S = 300:1

Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.

UK Office
Keison Products,
P.O. Box 2124, Chelmsford, Essex, CM1 3UP, England.
Tel: +44 (0)330 088 0560
Fax: +44 (0)1245 808399
Email: sales@keison.co.uk