![OPTEX logo]

Portable **Thermohunter**

PT-80

Portable **Infrared** temperature measurement   USB-connection

Flexible   COAXIAL LASER MARKER   Hygienic Long focus

Non-contact Accurate

Every object emits infrared energy from its surface. Optex Non-contact Infrared Thermohunter series PT-80 enable you to quickly and safely measure the surface temperature of a target from a distance without contact. The high performance and high efficiency of the PT-80 series have been achieved by thoroughly reviewing the requests and suggestions from the market itself.

Easy readability

For a clear view of the measurement values, a display with an EL back light has been developed. In addition, the large LCD has been incorporated with 3 display levels allowing more information to be shown with larger sized characters. As the EL back light is sensor activated, it lights only when ambient light conditions are low.
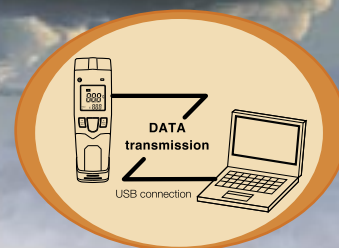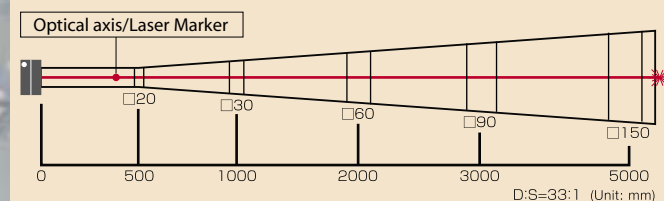
Convenience

Collecting and storing measurement data for reports can be tedious. For efficient use of measured data, the PT-80 series have been equipped with the ability to Send/Receive data when connected to a PC via USB. Using this imported data while creating a report saves a lot of time and is easy to accomplish. However, with the Preset Report Form it will become even easier. Each data setting can also be directly changed by using the software. The software is downloadable from www.secumatic.nl

Visibility

If the laser pointer is shifted off-axis from an actual measurement centre, it is difficult to accurately locate it again in the same place. To solve this difficulty, the PT-80 is equipped with a co-axial laser marker which points at the exact centre of the measurement area, independent from the working distance.

Easy measurement

Often, measurement from a long distance can be difficult and sometimes impossible due to a wide measurement area. The PT-80's measurement area is 30 x 30 mm from a distance of 1 m. Even from 5m its long-focus design still manages an area of only 150 x 150 mm. Therefore, safe and secure measurement is possible even in difficult to reach or dangerous applications.

Specifications

Model	PT-S80/PT-U80
Measuring range	-30 to 600 °C
Detection distance	30mm/1000mm(D:S=33:1)
Optics	Si lens
Sensing element	Thermopile
Wavelength	8 to 14 μm
Response time	0.5 sec. / 90%
Accuracy ()	-30.0 to 0°C:±3°C,0.1°C to 200°C: ±2°C, 201°C to 600°C: ±1%
Repeatability	±1°C of reading value
Display resolution	-30.0 to 199.9°C: 0.1°C, 200 to 600°C: ±1 %
Sighting method	Coaxial Laser Marker (Class 2)
HOLD time	15 seconds
Continuous measurement mode	ON/OFF selectable (PT-U80 only)
Output	USB (PT-U80 only)
Data storing	Single memory (PT-S80), 35-point memory, max 150-point (PT-U80)
Back light	El back light
High/low alarm	Alarm LED, Buzzer, ON/OFF selectable
Emmissivity adjustment	0.95/0.85/0.70 selectable (PT-S80) E (0.3 to 1.20/0.01 step) (PT-U80)
Display function	NOR/MAX/MIN
Power supply	AA alkaline battery (2 pieces)
Battery life	15 hours (with max load)
Ambient temperature	0 to 50°C
Ambient humidity	35 to 85% RH (no condensation)
Storage temperature	-10 to 60°C
Humidity	35 to 85% RH
Material	ABS/TEEE
Dimensions	182 x 56 x 38 mm (HxWxD)
Weight	Approx. 230g (including batteries
Accessory	Protection case included

Optical axis/Laser Marker

□20 □30 □60 □90 □150

0 500 1000 2000 3000 5000

D:S=33:1 (Unit: mm)

DATA transmission

USB connection

CAUTION
DO NOT STARE INTO BEAM
LASER DIODE POWER MAX1.0mW
WAVE LENGTH670nm
CLASS2 LASER PRODUCT

CAUTION
LASER RADIATION
DO NOT STARE INTO BEAM
670nm/1.0mW MAX
CLASS II LASER PRODUCT
THIS PRODUCT COMPLIES WITH
21 CFR 1040.10 AND 1040.11

CE