

METRATHERM IR BASE

Temperature Sensor

3-447-095-03

1/12.20

- Infrared (IR) sensor
- Contactless
- Easy to handle: point & measure
- °C or °F
- Wide temperature range: $-30 \dots +550 \text{ }^{\circ}\text{C}$
- Automatically compensates for temperature deviations from ambient temperature.
- Battery powered
- Robust and lightweight
- For METRACELL BT PRO



Applications

The METRATHERM IR BASE is a non contact temperature measurement accessory instrument.

It is specifically designed to work with the METRACELL BT PRO by Gossen Metrawatt GmbH and is required for its temperature measurement.

Measuring temperatures could not be easier: Simply connect the METRATHERM IR BASE to the measuring instrument, start the measurement procedure, point the METRATHERM IR BASE at the surface to be measured, read the temperature on the display of the instrument it is connected with and save the measured value in its memory.

The red laser beam lets you precisely fixate the measuring spot and you can always exactly see where you are pointing the METRATHERM IR BASE at.

Designed robustly and as a battery powered device, the METRATHERM IR BASE is tailored to accompanying the measuring instrument in all its use cases.



METRATHERM IR BASE

Temperature Sensor

Technical Data

Mechanical Design

Housing (W × H × D)	164 × 50 × 40 cm
Weight	182 g

Ambient Conditions

Operating temperature	0 ... +50 °C
Storage temperature	-20 ... +60 °C
Relative humidity	max. 80 %, no condensation allowed
Elevation	max. 2000 m

Power Supply

Power supply:	9 V battery, type NEDA 1604 / IEC 6F22
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Electrical Safety

Measuring category	Cat O
Pollution degree	2
Protection class	0 per IEC 61140

Electromagnetic Compatibility

Interference emission	EN 61326-1 class A
Interference immunity	EN 61326-1 EN 61326-2-1

Measurements

Temperature range	-30 ... +550 °C
Output	1 °C or 1 °F (per 1 mV)
Accuracy	±2 % of reading or ± 2 °C (4 °F), whichever is greater. Accuracy is specified for ambient temperature range of +18 ... +28 °C.
Emissivity	0.95 fixed value
Field of View	Distance/spot size = approx. 8:1 ratio Object under test must be at least 2.54 cm. (Calculated at 90 % energy on the focal point.)
Laser power	Less than 1 mW
wavelength	630... 670 nm
Spectral response	6 ... 14 µm (wavelength)

Scope of Delivery

1	METRATHERM IR BASE temperature sensor (Z680A)
1	9 V battery
1	Operating instructions

Order Information

Description	Type	Article number
Temperature sensor	METRATHERM IR BASE	Z680A

For additional information regarding accessories please refer to

- Measuring Instruments and Testers catalog
- www.gossenmetrawatt.com

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