

IR-Sens

Temperature Detection System



Automatic acquisition of module or cell surface temperature

BERGER
Lichttechnik

IR-Sens

Temperature Detection System

Contactless Infra Red measuring system with external sensor head. Elementary tool for manual and fully automated production lines.

Available in three different variations depending on use case.

Basic version offers a temperature resolution of 0.1 °C; Use for direct replacement of IR-Sens II

Mark II version offers a temperature resolution of 0.025 °C; Use for module and cell tester systems

Mark II-L version offers a temperature resolution of 0.025 °C and a better targeting due to integrated laser targeting;

Use in cell testers for measurement from the top, specially for bifacial cells

All versions are available for integration into the system by a transfer box or for direct connection by USB.

Product Specification

- › M12/M48 sensor head
- › Cable length 1 or 3 meter*
- › Fiber optical connection to PSL measuring device or USB direct to PC
- › No additional PC connection required for finer optical connection
- › Spectral sensitivity 8-14 μm
- › Includes software for setup and operation



Mark II



Basic



Mark II-L

* Longer cable connections on request

Technical Data

IR-Sens IV

Measurement range: -25 °C to 300 °C

Resolution: ± 0.1 °C

Accuracy: $\pm 1\%$ or ± 1 °C

(without software calibration)

Sensor

Head: M 12 x 1

Cable length: 1 m or 3 m

Features

Fiber optic or direct USB connection

Measurement from top or bottom

IR-Sens IV Mark II

Measurement range: -20 °C to 150 °C

Resolution: ± 0.025 °C

Accuracy: $\pm 1\%$ or ± 1 °C

(without software calibration)

Sensor

Head: M 18 x 1

Cable length: 1 m or 3 m

Features

Fiber optic or direct USB connection

Measurement from top or bottom

IR-Sens IV Mark II-L

Measurement range: -20 °C to 150 °C

Resolution: ± 0.025 °C

Accuracy: $\pm 1\%$ or ± 1 °C

(without software calibration)

Sensor

Head: M 48 x 1,5

Cable length: 1 m or 3 m

Features

Laser targeting

Fiber optic or direct USB connection

Including holder for measurement from top