

TS-OEM / HS-OEM / PD-OEM

Integrated OEM Laser Power Meters

Compact thermopile and photodiode power-sensor modules for monitoring and feedback inside laser-processing equipment and test systems. Choose the spectral response, active area and electrical output together.

Measurement method

Integrate the detector head into the optical path, then acquire the calibrated power signal through a selected digital interface or analogue-voltage output. Communication protocols and mechanical packaging are configurable.

Features

- Compact sensor heads
- USB, RS232, RS422, RS485 or analogue output
- USB, DB9 and aviation-style connector options
- Communication protocols and integration support
- Custom mechanical and signal-output configurations

Applications

- Laser-process power monitoring
- Feedback in laser test systems
- Equipment integration and production test

OEM series

Parameter	Thermoelectric TS series	Thermoelectric HS series	Photoelectric PD series
Model	TS-OEM Series	HS-OEM Series	PD-OEM Series
Wavelength range	0.19-25 μm	0.19-20 μm	200-1800 nm
Power range	2 mW - 300 W	100 μW - 5 W	1 nW - 3 W
Min measurement accuracy (listed)	0.1 mW	0.01 mW	0.001 μW
Probe diameter	22 / 25 mm	9 mm	9.5 / 12 mm
Maximum average power density	45 kW/cm ²	1.5 kW/cm ²	20 W/cm ²
Size (customised)	51 × 51 × 30 mm	40 × 40 × 18 mm	Ø30 × 12 mm
Port options	USB / RS232 / RS422 / RS485 / analogue voltage	USB / RS232 / RS422 / RS485 / analogue voltage	USB / RS232 / RS422 / RS485 / analogue voltage

Conditions and configuration notes

Series spans combine different sensors and configurations. A single PD sensor does not cover every wavelength and power in the series span.

The source calls the absolute-unit field minimum measurement accuracy; confirm whether it denotes resolution or another measurement increment. It is not a percentage uncertainty specification.

Specify your measurement

- Wavelength, minimum and maximum optical power
- Beam diameter, attenuation and thermal management
- Digital protocol or analogue output range and connector

Prepared by Precisometer. Technical review: 24 October 2026. Confirm the supplied configuration, measurement conditions, accessories and warranty with the quotation.

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