

KEYSIGHT TECHNOLOGIES (AGILENT HP)

81635A

The Keysight 81635A is a dual-channel optical power sensor module designed for use with the 8163A/B, 8164A/B, and 8166A/B Lightwave mainframe families. Featuring dual InGaAs detectors, it covers a wavelength range of 800 nm to 1650 nm and provides high precision, stability, and fast measurement capability for optical component testing.

SPECIFICATIONS

General

Interfaces	None (controlled entirely via host mainframe GPIB, LAN, or USB)
Display	None (uses host mainframe display)

Physical

Power Supply	Derived from host mainframe
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Optical Performance Specifications

Sensor Element Type	InGaAs (Indium Gallium Arsenide)
Number of Channels	2
Wavelength Range	800 nm to 1650 nm
Power Measurement Range	-80 dBm to +10 dBm
Maximum Safe Input Power	+16 dBm

Measurement & Timing Characteristics

Averaging Time Range	100 μ s to 10 s
Minimum Logging Interval	100 μ s

Physical Interface & Fiber Compatibility

Optical Interface Adapter Compatibility	Keysight 81000xI series connector adapters (e.g., 81000FI, 81000KI, 81000VI)
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System Integration & Compatibility

Host Mainframe Compatibility	Keysight / Agilent 8163A/B, 8164A/B, 8166A/B
Required Slot Width	1 slot
Hot-Swappability Support	Supported

Calibration

Calibration Reference Power Level	-20 dBm (100 μ W)
Calibration Reference Temperature	23 $^{\circ}$ C $\pm$ 5 $^{\circ}$ C

Interfaces

Mainframe Backplane Interface	Proprietary Keysight 816x internal backplane connector
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TECHNOLOGY

InGaAs Optical Power Sensor

APPLICATIONS

Optical power measurement, insertion loss testing, and multichannel optical component characterization

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.