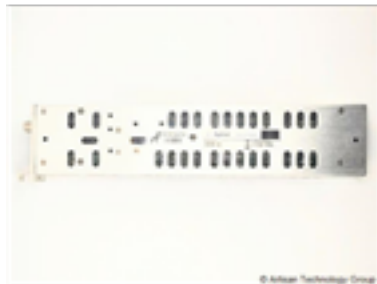


HP 81630B
Power Sensor Module



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Technical Specifications (continued)

High power sensor module	81630B
Sensor element	InGaAs
Wavelength range	970 nm to 1650 nm
Power range	–70 dBm to +28 dBm
Applicable fiber type	Standard SM and MM up to 100 µm core size, NA ≤0.3
Uncertainty (accuracy) at reference conditions ¹	±3.0% for 1255 nm to 1630 nm at 980 nm ±3.5% (add ±0.5% per nm if 980 nm is not the center wavelength) at 1060 nm ±4.0% (add ±0.6% per nm if 1060 nm is not the center wavelength),
Total uncertainty ^{2,8}	±5% ±1.2 nW (1255 nm to 1630 nm) at 980 nm ±5.5% ±1.2 nW (add ±0.5% per nm if 980 nm is not the center wavelength) at 1060 nm ±6.0% ±1.2 nW (add ±0.6% per nm if 1060 nm is not the center wavelength)
Relative uncertainty:	
- due to polarization ³	< ±0.01 dB
- spectral ripple (due to interference) ⁴	< ±0.005 dB
Linearity (power): ⁵	CW – 50 dBm to + 28 dBm (970 nm – 1630 nm)
- at 23 °C ± 5 °C	≤±0.05 dB ⁸
- at operating temp. range	≤±0.15 dB ⁸
Return loss ⁷	> 55 dB
Noise (peak to peak) ⁶	< 1.2 nW (1255 nm – 1630 nm)
Averaging time (minimal)	100 µs
Maximum safe input power	+28.5 dBm
Analog Output	Included
Dimensions (H x W x D)	75 mm x 32 mm x 335 mm (2.8" x 1.3" x 13.2")
Weight	0.6 kg
Recommended recalibration period	2 years
Operating temperature	0 °C to +35 °C ⁹
Humidity	Non-condensing
Warm-up time	20 min

- Reference Conditions:
 - Power level 80 µW, continuous wave (CW)
 - SM Fiber; 9 µm; NA = 0.1
 - Ambient temperature 23 °C ±5 °C
 - On day of calibration (add ±0.3% for aging over one year, add ±0.6% over two years)
 - Spectral width of source < 10 nm (FWHM)
 - Wavelength setting at power sensor must correspond to source wavelength ± ±0.4 nm
- Operating Conditions:
 - Fiber ≤50 µm, NA ≤0.2
 - Connectors with 2.5 mm ferrule with flat face (fiber tip offset not more than 0.3 mm from 2.5 mm cross-section) with straight or angled polish
 - Averaging time 1 s

- Within one year after calibration; add 0.3% for second year
 - Operating temperature range as specified, humidity: non-condensing
- All states of polarization at constant wavelength (1550 nm ±30 nm) and constant power, straight connector, T = 23 °C ±5 °C. For angled connector (8 °) add ±0.01 dB typ.
 - Conditions:
 - Wavelength 1550 nm ±30 nm, fixed state of polarization, constant power
 - Temperature 23 °C ±5 °C
 - Linewidth of source ≥ 100 MHz
 - Angled connector 8 °

- Does not include noise
- Averaging time 1 s, T = 23 °C ±5 °C, ΔT ±1 °C, observation time 300 s.
- Conditions:
 - Wavelengths 1310 nm ±30 nm and 1550 nm ±30 nm
 - Standard single mode fiber
 - Angled connector min 8 °
 - T = 23 °C ±5 °C
- For input power > +10 mW add: typ. ±0.0012 dB/mW. In case of negative power change > 50 dB allow additional recovery time of 3 min
- 30 °C for > +20 dBm input power

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