

Optical Power Meter

The KI 3600 series Optical Power Meter is used for testing fiber optic communications systems.

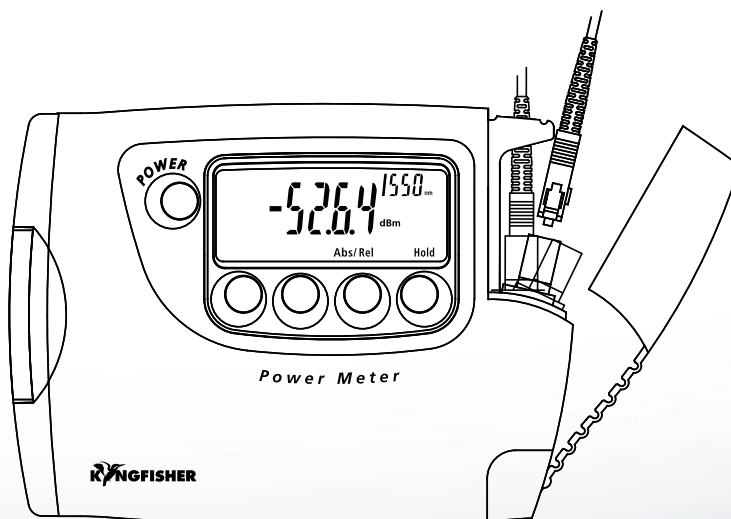
Traceable 3% accuracy, ease of use and high availability combine to achieve superior measurement confidence.

Detector & calibration options cover a wide range of connector types, fiber types and common wavelengths from +27 to -70 dBm.



Optical Communications Test Applications

- System power testing
- Attenuation testing
- Fiber identification



Features

- Autotest compatibility with other instruments
- 3 year warranty
- 3 year calibration cycle
- Interchangeable connectors
- Simple to use
- 1,200 hr battery life
- Test Tone Detection
- Max / Min recording
- Compact, rugged & light weight



KI 3600 Series Optical Power Meter

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KI 3600 SERIES V20040729

The KI 3600 Optical Power Meter measures the absolute and relative light level in multimode and singlemode optical communication systems. High accuracy and simplicity of use make it ideal for field and laboratory use.

Autotest provides automatic multiple λ (wavelength) testing when used with an Autotest compatible light source, for easier, faster and more confident testing.

Operational savings result from the 3 year re-calibration cycle, 1,200 hour battery life, and no range changing delays.

The meter displays mW, μ W, nW, dB, dBm to 0.01 dB resolution. A separate reference for each λ can be stored and displayed.

Tight total uncertainty specifications cover the entire measuring range, operating temperatures, connector types and fiber types, without warm up or user dark current offset.

The interchangeable optical connectors are dust and drop protected. SC, FC, ST adaptors are supplied, with others available including small form factor styles. Metal free adaptors avoid contamination of connectors in high power systems.

The handy tone detector is a useful craft aid for fiber identification. The actual modulation frequency is measured and displayed, so that source modulation rates can be checked.

A Ge detector is ideal for general measurements, with good accuracy at 850 nm. An InGaAs detector has better accuracy, particularly above 1550 nm. A Si detector is cost effective for 850 nm and industrial applications.

Special instrument versions are available with a λ selective detector, or with a large area detector for testing MT-RJ connectors, ribbon cable, large core fiber etc.

Kingfisher offers a full range of companion light sources.

Specifications

Detector Type	Response λ nm	Calibration λ nm	Power range dBm	Autotest sensitivity dBm	Mid range linearity ¹ dB	Calibration Accuracy %	λ Sensitivity ± 30 nm ² dB	Polarisation Sensitivity dB	Total Uncertainty ³ dB
Ge	600 - 1650	650, 850	+10 to -65	-45	0.04	3%	0.04	< 0.005	0.5
		1300, 1310, 1390, 1490, 1550, 1590, 1610	+10 to -70	-50					
InGaAs	800 - 1700	850	+5 to -60	-40	0.02	3%	0.03	< 0.005	0.3
		1300, 1310, 1390, 1490, 1550, 1610	+5 to -70	-50					
H1 (Ge)	600 - 1650	850	+20 to -55	-35	0.04	3%	0.04	0.03	0.5
		1300, 1310, 1550, 1590, 1610	+20 to -60	-40					
H2 (Ge)	600 - 1650	850	+27 to -40	-20	0.04	3%	0.04	0.03	0.5
		1300, 1310, 1550, 1590, 1610	+27 to -50	-30					
H3 (InGaAs)	800-1700	850	+27 to -40	-20	0.02	3%	0.04	< 0.005	0.3
		1300, 1310, 1550, 1610	+27 to -50	-30					
Si	350 - 1100	600, 650, 660, 780, 850, 980	+0 to -70	-47	0.02	3%	0.03	< 0.005	0.3
					typical	typical	typical	typical	max

Note 1: Mid range linearity excludes top 3 dB and bottom 10 dB of range. Note 2: At calibration wavelengths in bold type.

Note 3: Includes contributions due to: varying optical connector types, calibration uncertainty, full temperature, dynamic range and fiber core diameter up to 200 μ m for Si detector and 100 μ m for others.

Battery life	1200 hrs
Size	165 x 120 x 40 mm, 6.5" x 4.7 x 1.6"
Weight	350 gm, 0.8 lb. Shipping 1.7 Kg, 3.7 lb
Operating / Storage	-15 to 55 °C / -25 to 70 °C
Case	Polycarbonate, 1 metre drop tested
Power	2 alkaline C cells (7.6 A/Hr) or 2 AA cells using AA-to-C battery converter. Selectable auto-off, low battery indicator.
Tone Detection	150 - 9999 Hz 1%
Max / Min	Recording feature for stability testing
Damage level	> 5 dB above max reading. H2 / H3: > 3 dB above max reading for 2 minutes

Standard Accessories

ST, FC, SC metal-free optical interchangeable connector adaptors, manual, NATA traceable calibration certificate, KITS™ reporting software (manual data entry).

Interchangeable Connector Options

This instrument is supplied with metal-free optical interchangeable connector adaptors, to avoid contamination of connectors used in high power applications. The power meter works with both PC and APC connectors. You can order any number of connector adaptors.

Ordering Information

Instrument	p/n
Ge Power Meter	KI 3600-Ge
InGaAs Power Meter	KI 3600-InGaAs
H1 Power Meter	KI 3600-H1
H2 Power Meter	KI 3600-H2
H3 Power Meter	KI 3600-H3
Si Power Meter	KI 3600-Si

Optional Interchangeable Connector Adaptors

E2000/LSH, green	OPT060G	MU	OPT080
E2000/LSH	OPT060	2.5mm universal	OPT081
LSA / DIN47256	OPT071	SMA 905/906	OPT082
LC / F3000	OPT072	Metal free	OPT090

To order metal free connector, specify: connector style + OPT090.

Optional Accessories

KI 3600 accessory pack includes: Soft pouch, Leather holster, 1.25 & 2.5 mm clean sticks, connector clean cloth, AA-to-C battery size converter	OPT146
Carry case for 2 instruments	OPT153

Australian and international patents. Technical data is subject to change without notice as part of our program of continuous improvements.



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