



KI 3600 SERIES

OPTICAL POWER METER

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

Traceable 2% 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 ~ 7 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





The KI 3600 Optical Power Meter measures the absolute, relative light level and test tones 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.

The tight total uncertainty specification covers 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 MM 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	Damage level dBm	Calibration λ nm	Power range dBm	Autotest sensitivity dBm	Mid range linearity ¹ dB	Calibration Accuracy ² %	Polarization Sensitivity dB	Total Uncertainty ³ dB	λ Sensitivity ± 30 nm ⁵ dB
Ge	600 ~ 1650	+15	780, 850 1300, 1310, 1390, 1490, 1550, 1590, 1610, 1625	+10 ~ -65 +10 ~ -70	-45 -50	0.04	2 %	< 0.005	0.5	0.04
InGaAs	800 ~ 1700	+15	650, 850 1300, 1310, 1390, 1490, 1550, 1610, 1625	+5 ~ -60 +5 ~ -70	-40 -50	0.02	2 %	< 0.005	0.3	0.03
H3B (InGaAs)	800 ~ 1700	+30 ⁴	850 1300, 1310, 1390, 1490, 1550, 1610, 1625	+27 ~ -50	-30	0.02	2 %	< 0.005	0.3	0.03
H5 (InGaAs)	800 ~ 1700	+25	850 1300, 1310, 1390, 1490, 1550, 1590, 1610, 1625	+15 ~ -50 +15 ~ -60	-30 -40	0.02	2 %	< 0.005	0.3	0.03
Si	350 ~ 1100	+15	635, 650, 660, 780, 850, 980	+0 ~ -70	-47	0.02	2 %	< 0.005	0.3	0.03
					typical	typical		typical	max	typical

Note 1: Mid range linearity excludes top 3 dB and bottom 10 dB of range.

Note 2: Calibration condition: non coherent light, -35 \pm 5 dBm, 23 \pm 1 $^{\circ}$ C, \pm 1 nm, 10 \pm 3 nm FWHM, PC ceramic connector, 100 μ m fiber.

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.

Note 4: H3B can sustain the damage level for 2 minutes.

Note 5: At calibration wavelengths in bold type.

GENERAL SPECIFICATIONS

Battery life	1,200 hrs
Size	165 x 120 x 40 mm, 6.5 x 4.7 x 1.6"
Weight	350 gm, 0.8 lb. Shipping 0.7 Kg, 1.5 lb
Operating / Storage	-15 to 55 $^{\circ}$ C / -25 to 70 $^{\circ}$ 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 size converter(OPT146). Selectable auto-off, low battery indicator
Tone detection	150 - 9999 Hz 1%
Max / min	Recording feature for stability testing

OPTIONAL INTERCHANGEABLE CONNECTOR ADAPTORS

Description	P/N	Description	P/N
D4	OPT055	LC / F3000	OPT072
E2000/LSH, green	OPT060G	MU	OPT080
E2000/LSH	OPT060	2.5mm universal	OPT081
LSA / DIN47256	OPT071	SMA 905/906	OPT082

This instrument is supplied with metal-free interchangeable optical connector adaptors. The ferrule type is fixed and customer specified as either PC or APC. Green is associated with APC. You can order any number of connector adaptors. Order quantity two of each type.

AUTHORIZED DEALER

ORDERING INFORMATION

Description	P/N
Ge Power Meter	KI 3600-Ge-MP
InGaAs Power Meter	KI 3600-InGaAs-MP
H3B Power Meter	KI 3600-H3B-MP
H5 Power Meter	KI 3600-H5-MP
Si Power Meter	KI 3600-Si-MP

STANDARD ACCESSORIES

Description	Quantity
SC metal-free interchangeable connector adaptor (OPT046)	1
FC metal-free interchangeable connector adaptor (OPT051)	1
ST metal-free interchangeable connector adaptor (OPT040)	1
Operation manual	1
NATA (ILAC) traceable calibration certificates	1
KITS™ Recording/Reporting software (manual data entry)	1

OPTIONAL ACCESSORIES

Description	P/N
KI 3600 accessory pack, it includes: Soft pouch, Leather holster, connector cleaner, AA-to-C battery size converter	OPT146
Carry case for 2 instruments	OPT153
Carry case for 2 Instruments, Compartments for Microscope, Visual Fault Locator, connector cleaning materials, batteries, test leads and mandrel wraps	OPT154

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



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