

The KI 3600B 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 & continuity

Features

- ✓ Reliable, rugged and field proven
- ✓ 6 -10 calibrated wavelengths
- ✓ 1,200 hr exceptionally long battery life
- ✓ Autotest compatibility with other instruments
- ✓ 3 year warranty
- ✓ 3 year calibration cycle
- ✓ Patented low cost Interchangeable connectors
- ✓ Simple to use
- ✓ Large sunlight readable display
- ✓ Displays dBm, dB, linear, tone Hz
- ✓ Test Tone Detection
- ✓ Max / Min recording
- ✓ Made in Australia



The KI 3600B Optical Power Meter measures absolute / relative light level and test tones in fiber optic systems.

Autotest provides automatic multiple λ (wavelength) testing when used with an Autotest light source, for easier, faster and more confident testing. Various matching LED and Laser sources are available, including mode controlled LED sources, zero warm up laser sources and 4 λ CWDM sources.

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.

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

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.

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.

An InGaAs detector is recommended for all singlemode & multimode test wavelengths. A Si detector is recommended for testing below 1000 nm. High power detectors are only recommended for testing above the power range of other detectors. Ge detectors provide reduced accuracy over 850 ~ 1550 nm.

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

SPECIFICATIONS

Detector type	Response λ nm	Damage level dBm	Calibration λ nm	Power range dBm	Autotest & Tone sensitivity dBm	Mid range linearity ¹ dB	Calibration Accuracy ² %	Polarization Sensitivity dB	Total Uncertainty ³ dB	λ Sensitivity $\pm 30 \text{ nm}^5$ dB
InGaAs	600 ~ 1700	+15	660, 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, 1590, 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
Ge	600 ~ 1650	+15	660, 850 1300, 1310, 1390, 1490, 1550, 1590, 1610, 1625	+10 ~ -65 +10 ~ -70	-45 -50	0.04	2 %	< 0.005	0.5	0.04
					typical	typical		typical	max	typical

Note 1: Mid range linearity excludes top 3 dB & 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 & fiber type up to 200 μ m core diameter, wavelengths in bold type.

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

Note 5: For 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

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

ORDERING INFORMATION

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

STANDARD ACCESSORIES

Description	QTY
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
Calibration certificates	1
KITS™ Recording/Reporting software (manual data entry)	1

OPTIONAL INTERCHANGEABLE CONNECTOR ADAPTORS

D4	OPT055	LC	OPT076
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 instrument works with both PC & APC connectors. Green is associated with APC. You can order any number of connector adaptors.

OPTIONAL ACCESSORIES

Description	P/N
KI3600 accessory pack	OPT146



It includes: Soft pouch, Leather holster, connector cleaner, AA-to-C battery size converter

Carry case for 2 instruments	OPT153
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Sturdily constructed of durable custom molded urethane foam, splash resistant cloth outer covering with zipper and separator, carry strap.

Space for additional: (not supplied) batteries, connector adaptors, test leads, documentation.

Carry Case for 2 instruments	OPT154A
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Sturdily constructed of durable custom molded urethane foam, splash resistant cloth outer covering with zipper and separator, carry strap.

Space for additional: (not supplied) batteries, connector adaptors, test leads, documentation, mains power pack, two mandrel wraps.

Includes cleaning materials:

- 1) Cletop-S type A cartridge connector endface cleaner.
- 2) "stick" type connector endface cleaners 2.5 mm, Qty 5.
- 3) "stick" type connector endface cleaners 1.25 mm, Qty 5.
- 4) Puffer brush to clean microscope and optical power meter interface

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