KI 9600A SERIES

OPTICAL POWER METER

The KI 9600A 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 very wide range of connector types, fiber types and wavelengths from +24 to -60 dBm.

OPTICAL COMMUNICATIONS TEST APPLICATIONS

- ✓ System power testing
- ✓ Attenuation testing
- ✓ Fiber identification
- ✓ Wavelength Selective Option for PON

FEATURES

- ✓ Shirt pocket size with spring clip
- ✓ 3 year warranty
- ✓ 3 year calibration cycle
- ✓ Interchangeable connector
- ✓ Multi-fiber ID for fiber identification
- ✓ Displays dBm, dB, linear, tone Hz
- ✓ Power averaging mode for modulated signal
- ✓ Limited Feature mode for low skill measurement
- ✓ Simple to use
- ✓ 300 hr battery life
- ✓ Max / Min recording & display hold
- ✓ 9 calibrated wavelengths
- ✓ Compact, rugged & light weight
- ✓ Made in Australita

3-7 YEAR WARRANTY

ilac-MRA

NATA

Accreditation No 4853

kingfisher.com.au

ISO 9001 TRACEABLE CALIBRATION

3-7 YEAR WARRANTY

KINGFISHER INTERNATIONAL

KI 9600A SERIES

OPTICAL POWER METER

The small KI 9600A Pocket Fiber Meter is ideal for measuring absolute / relative light levels or test tones on single mode, multimode or plastic optical fiber (POF) systems. High traceable accuracy and ease of use make it perfect for field or laboratory.

Tough construction includes moisture resistance, rubber corners, a captive connector dust cap and it can be dropped over 2 meters onto a hard surface. This instrument meets MIL PRF 28800F Class 2.

When used with multiple KI 9800 sources, the Multi-Fiber ID feature uniquely identifies up to 12 fibers.

The tight total uncertainty specification covers the entire range of measurement, temperature, connectors and fiber types, without warm up or dark current offset. Calibration is fully traceable.

Operational savings come from a 3 year warranty & re-calibration cycle, 300 hr battery life, and fast operation.

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

A Power Averaging Mode measures the average power of modulated signals.

A Limited Feature Mode enables a site manager to lock and track instument settings to reduce measurement skill, and improve both test confidence and traceability.

Interchangeable optical connectors are dust and drop protected. Other styles include the popular LC.

The InGaAs meter is the preferred solution for single mode testing from 900 – 1650 nm.

Ge meters offer modest accuracy from 660 to 1550 nm.

H series meters are available for high power testing. They offer good immunity to wavelength and reflection effects.

For PON testing, the Wavelength Selective meter KI 9600WS01-Ge offers a simple way to measure 1550 nm light only..

For testing 1 mm pof, ribbon fiber, MT-RJ, expeanded beam connectors etc, refer to the alternative KI 9600-XL brochure for instruments with large area detectors.

SPECIFICATIONS

Detector Type	Response λ nm	Damage level dBm	Calibration λ nm	Power Range dBm	Tone & multi-fiber ID sensitivity dBm	Mid range linearity[1] dB	Calibration Accuracy[2] %	Polarization Sensitivity dB	Total Uncertainty[3] dB	λ Sensitivity ± 30 nm[5] dB
InGaAs	600 ~ 1700	+15	*660, 850* **1300, 1310, 1390, 1490,1550, 1610, 1625**	*+5 ~ -60*	-40 -50	0.02	2 %	< 0.005	0.3	0.03
H3B (InGaAs)	800 ~ 1700	+27[4]	850 **1300,1310,1390,1490,1550, 1590, 1610, 1625**	+24 ~ -40	-20 -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*	-30 -40	0.02	2 %	< 0.005	0.3	0.03
Ge	600 ~ 1650	+15	*660, 850* **1300, 1310, 1390, 1490, 1550,** 1610, 1625	*+10 ~ -60*	-45 -50	0.04	2 %	< 0.005	0.5	0.04
						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±5 dBm, 23±1°C, ±1 nm, 10±3 nm FWHM, PC ceramic connector, 100µm fiber.
Note 3: Includes contributions due to: varying optical connector types, calibration uncertainty, full temperature, dynamic range and fiber core diameter up to 200µm.
Note 4: H3B can sustain the damage level for 2 minutes.
Note 5: At calibration wavelengths in bold type.

KI 9600WS01-Ge SPECIFICATIONS

Calibrated wavelength	1550 nm
Measurement of 1550 nm	
Pass band	1530 to 1625 nm
Isolation of 1490 nm band	> 25 dB
Isolation of 1310 nm band	> 30 dB
Max. permitted input level	+ 15 dBm
Measurement range	+10 to -70 dBm
Measurement accuracy	
Mid range linearity[1]	0.04 dB
Polarization Sensitivity	< 0.005 dB
Total Uncertainty[3]	0.5 dB

GENERAL SPECIFICATIONS

Battery life	300 hrs
Size	124 x 81 x 25 mm, 4.9 x 3.2 x 1.0"
Weight	0.15 kg, 0.33 lb. Shipping 0.5 kg, 1.1 lb
Operating / Storage	-15 to 55 °C / -25 to 70 °C
Case	Polycarbonate, 2.5 metre drop tested
Power	2 alkaline AAA cells. Selectable auto-off, low battery indicator
Tone detection	200 ~ 2500 Hz ± 2%
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.

AUTHORIZED DEALER

ORDERING INFORMATION

Description	P/N
Instrument, Power Meter InGaAs	**KI 9600A-InGaAs**
Instrument, Power Meter H3B	**KI 9600A-H3B**
Instrument, Power Meter H5	**KI 9600A-H5**
Instrument, Power Meter, Wavelength Selective	KI 9600WS01-Ge
Instrument, Power Meter Ge	**KI 9600A-Ge**

Preferred P/N are bolded.

STANDARD ACCESSORIES

Description	Quantity
SC metal-free interchangeable connector adaptor (OPT046)	1
Calibration certificates	1
Quick guide	1

OPTIONAL INTERCHANGEABLE CONNECTOR ADAPTORS

Description	P/N	Description	P/N
ST	OPT040	LSA / DIN47256	OPT071
FC	OPT051	LC	OPT076
D4	OPT055	MU	OPT080
E2000/LSH, green	OPT060G	2.5mm universal	OPT081
E2000/LSH	OPT060	SMA 905/906	OPT082

This instrument is supplied with metal-free interchangeable optical connector adaptors. Green is associated with APC. You can order any number of connector adaptors.

OPTIONAL ACCESSORIES

Option, accessories pack KI9000, includes:	OPT148
ST metal-free interchangeable connector adaptor (OPT040)	1
FC metal-free interchangeable connector adaptor (OPT051)	1
Operation manual on CD	1
Soft carry pouch	1
AAA alkaline battery	2

KINGFISHER INTERNATIONAL

Kingfisher International Pty Ltd
30 Rocco Drive, Scoresby VIC 3179 Australia

T +61 3 9757 4100
F +61 3 9757 4193
E sales@kingfisher.com.au

FTTx TELCO / CATV LAN / WAN DEFENCE EDUCATION AUTOMOTIVE