

KI 6000 Optical Power Meter

KI 6000 SERIES



OPTICAL POWER METER

The KI 6000 series Optical Power Meter is a precision instrument for basic testing of fiber optic communications systems.

High accuracy, ease of use and high availability combine to achieve superior measurement confidence.

TYPICAL APPLICATIONS

- Installed system power testing
- Fiber attenuation testing
- Fiber identification

FEATURES

- Fast and simple to use
- Traceable calibration
- dBm & dBr display
- 170 hour battery life
- Test tone detection
- Options from +25 to -65 dBm
- High quality connector adaptors
- Dark current offset not needed



Inexpensive Handheld

Fiber Optic Test Instrument



www.kingfisher.com.au

 **KINGFISHER**
INTERNATIONAL

KI 6000 Optical Power Meter

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The KI 6000 Optical Power Meter measures absolute and relative light levels in multimode and singlemode optical communication systems. It provides high accuracy and simplicity of use, making it ideal for field and laboratory use.

Operational convenience and cost savings result from the 3 year re-calibration cycle, 170 hour battery life, and negligible warm up. There is no range changing delay, and no requirement to perform dark current offset.

The meter displays both dB and dBm to 0.01 dB resolution. A separate reference for each wavelength is stored, which can be recalled and displayed during subsequent use. An averaging mode is also available.

The durable, screw-on connector adaptors are designed to minimise measurement errors caused by varying connector styles.

A wide range of connector adaptors is available to meet different connector styles.

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

The Ge meter is ideal for multimode LAN measurements with better accuracy at 850 nm. The InGaAs meter is ideal for singlemode, with better accuracy at 1550 nm, with the H2 and H3 meters for high power measurements. The inexpensive Si meter is cost effective for industrial applications.

Kingfisher offers a full range of accessories and companion sources, meters, Two-way Loss & ORL test sets, attenuators, talk sets, visible lasers, and the Cold Clamp fault locator.



1 Turn the unit on and select a wavelength.



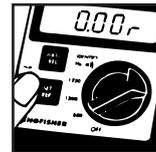
2 Plug your optical connector into the KI screw-on-adaptor.



3 The optical power is now displayed in dBm.



4 To display a relative measurement, push dB/dBm.



5 To update the reference, push SET REF.

Power Meter Specifications

Detector type	Response λ nm	Calibration λ nm	Power range dBm	Modulation sensitivity dBm	Calibration Accuracy dBm	Linearity mid range dB	Linearity High power dB	Linearity Low power dB
Ge	600 - 1650	850	+10 to - 55	< -30	0.13 (3%)	0.04	0.2	1
		1300, 1550	+10 to - 60	< -35				
InGaAs	800 - 1700	850	+5 to - 60	< -30	0.09 (2%)	0.02	0.2	0.5
		1310, 1550	+5 to - 65	< -35				
H2 (Ge)	600 - 1650	1310, 1550	+25 to - 40	< -15	0.13 (3%)	0.04	0.2	1
H3 (InGaAs)	800 - 1800	1310, 1550	+25 to - 50	< - 15	0.13 (3%)	0.02	0.2	0.5
Si	300 - 1100	670, 780, 850	+5 to - 65	< - 35	0.09 (2%)	0.02	0.2	0.5

Note : Low power linearity applies to bottom 5 dB of range, high power applies to top 5 dB of range. All linearity specifications over temperature range -5 to 45 °C, unadjusted.

Battery life	170 hrs typ
Size	35 x 150 x 80 mm, 1.4 x 5.9 x 3.1"
Weight	240 gm, 0.5 lb
Operating	-5 to 55 °C
Storage	-20 to 75 °C
Power	One 9V alkaline cell, low battery indicator, optional timeout.
Fibre types	Up to 500 μ core with NA < 0.3
Calibration	Performed without opening instrument, NATA traceable certificate, 3 year cycle
Temperature stability	Si, InGaAs & H3: 0.00 dB / 10 °C at 1300 nm Ge & H2: 0.03 dB / 10 °C at 1300 nm
Tone detection	100 - 9999 Hz 1 % \pm 1 count
Max/Min	Recording feature for stability testing
Damage Level	> 5 dB above max reading

Standard Accessories

Manual, battery, NATA traceable calibration certificate.

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

Ordering Information

Instrument	p/n
InGaAs Power Meter	KI 6000-InGaAs
Ge Power Meter	KI 6000-Ge
Si Power Meter	KI 6000-Si
H2 Power Meter	KI 6000-H2
H3 Power Meter	KI 6000-H3

Adaptor Accessories

ST	OPT202	FC	OPT204
SC	OPT201	LSA/DIN	OPT207
E2000/LSH	OPT220	SMA 905/9906	OPT203
D4	OPT206	EC	OPT221
MU	OPT222	MTRJ ¹	OPT223
Universal 1.25mm	OPT224	Universal 2.5mm	OPT225

Adaptors are suitable for both PC and APC polish connectors

Note 1: optimized for KI 6000-Si meter

Optional Accessories

Rubber Holster	OPT171
Soft carry pouch (one instrument)	OPT181
Hard case (two instruments)	OPT142
External power input 9V	OPT162A
Mains power pack, 90-240 V IEC	OPT103

Please enquire for 7 year warranty extension, traceable re-calibration services, non standard connectors, test kits and other accessories.



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