



KI 9800 SERIES

OPTICAL LIGHT SOURCE

The KI 9800 series Pocket Fiber Source is used to test loss in optical fiber systems, at 1 to 3 wavelengths. High productivity, high stability, rugged construction and ease of use combine to achieve superior measurement confidence.

OPTICAL COMMUNICATIONS TEST APPLICATIONS

- ✓ Singlemode, multimode or POF cable testing
- ✓ General testing & maintenance

FEATURES

- ✓ Shirt pocket size with spring clip
- ✓ 3 year warranty
- ✓ LED sources CPR compliant for 50 µm fiber
- ✓ Interchangeable connectors including SFF styles
- ✓ Excellent optical power stability
- ✓ Excellent re-connection repeatability
- ✓ Long battery life
- ✓ Low skill operation
- ✓ Optical test tone generator
- ✓ Ruggedised construction



ONE WAY AUTOTEST TX

3 YEAR
STANDARD
WARRANTY



WORLD RECOGNISED
TRACEABLE CALIBRATION
Accreditation No 4853





KI 9800 SERIES

OPTICAL LIGHT SOURCE

The small KI 9800 Optical Light Source is used with an Optical Power Meter for measuring loss on singlemode or plastic optical fiber (POF) cable.

The test tone function can be used with a compatible Power Meter or clip on identifier for fiber detection, continuity testing, fault finding and route location.

Multimode LED sources feature standards compliant beam geometry & modal distribution across the fiber core, results in greatly improved measurement accuracy.

Standards compliance includes Coupled Power Ratio (CPR), Center Wavelength and Spectral Width. Optional compliance with other standard based Modal launch Conditions is available. The compliant standards are IEC 61280-4-1 {Ed.1.0} and TIA/EIA 526-14A.

Re-connection repeatability is < 0.1 dB, resulting in exceptional practical source stability.

The long battery life eliminates the requirement for rechargeable batteries and time consuming re-charging procedures.

Interchangeable optical connectors work for both 1.25 mm SFF (small form factor) and 2.5 mm connectors. Instruments come with 3 popular connector adaptor styles. Metal free adaptors avoid contamination of connectors in high power systems.

The laser source options are ideal for single-mode testing, in combination with the KI 9600 series of power meters

The 650 / 660 nm LED source option is ideal for POF testing, in combination with the KI 9600-XL series of power meters. This source has a fixed SMA connector and comes with a 1 mm core SMA/SMA patch lead, so a suitable adaptor lead can be made up by the user.

Tough construction includes general moisture resistance, rubber corners and the ability to withstand drops of over 2 meters onto a hard surface. The optical connector adaptor is easily changed as required, and is protected with a captive rubber dust cap. This instrument meets the general requirements of MIL PRF 28800F class 2.

Other Kingfisher power meters can be used to provide additional features such as memory or data logging.

SPECIFICATIONS

	1310/1550 nm Laser	1310/1490/1550 Laser	850 nm VCSEL	850/1300 nm LED	660 nm LED	Comments
Output Power, dBm, Fiber Type, µm	0 @ 9/125	-4 @ 9/125	0 @ 50/125	-23 @ 62.5/125 -35 @ 9.5/125	-6 @ 1000 POF	± 1 dB
Short term stability, dB	0.04 ¹	0.06 ¹	0.06 ¹	0.01	0.01	For 15 min, typ ± Δ 2°C, after warm up
Stability over temp, dB	0.6	0.6	0.6	0.35	0.35	Typical, over temperature
λ initial tolerance, nm	20	20	20	30	5	At 25 °C
λ width, nm	3	< 1	< 1	850: 35 1300: 100	10	FWHM, typical
λ nm/°C	0.4	0.1	0.1	0.4	N/A	Typical
Coupled Power Ratio (CPR)	NA	NA	N/A	CPR CAT=1 into 50 µm ²	N/A	850 nm: 20-24 dB, 1300 nm: 16-20 dB
Reconnection repeatability, dB	0.1		0.05		95 % confidence	
Modulation	270 Hz, 1 kHz, 2 kHz, ± 2 %					
Laser output	Adjustable over 3 dB in 0.1 dB steps					

Note 1: ORL < -25 dB.

Note 2: LED sources CPR compliant for 50 µm fiber, includes Coupled Power Ratio (CPR), CAT=1, Center Wavelength and Spectral Width. The compliant standards are IEC 61280-4-1 {Ed.1.0} and TIA/EIA 526-14A.

GENERAL SPECIFICATIONS

Battery life	150 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	-15 to 55 °C
Storage	-25 to 70 °C
Case	Polycarbonate, 2.5 metre drop tested
Power	2 alkaline AAA cells. Selectable auto-off, low battery indicator

OPTIONAL INTERCHANGEABLE CONNECTOR ADAPTORS

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

This instrument is supplied with metal-free optical interchangeable connector adaptors. The source ferrule type is fixed and customer specified as either PC or APC. The power meter is for both PC & APC. Blue is associated with PC. Green is associated with APC.

ORDERING INFORMATION

Please enquire for warranty extension options, traceable calibration services, non-standard connectors, wavelengths, and other specifications.

Instrument	P/N
Instrument, Source 660 nm LED, 1 mm POF, fixed SMA	KI 9809
Instrument, Source 850-1300 nm LED	KI 9812
Instrument, Source 1310-1550 nm Laser	KI 9822
Instrument, Source 1310-1550 nm Laser, APC	KI 9822-APC
Instrument, Source 1310-1490-1550 nm Laser	KI 9827
Instrument, Source 1310-1490-1550 nm Laser, APC	KI 9827-APC
Instrument, Source 850 nm VCSEL	KI 9840

Note: standard 3 year warranty for instrument only

STANDARD ACCESSORIES

Description	KI 9809	Others
SC connector adaptor OPT046 blue or OPT046G green		1
FC connector adaptor OPT051		1
ST connector adaptor OPT040		1
Fixed SMA connector	1	
Operation manual on CD		1
Quick guide		1
50 & 62.5 µm fiber mandrel wraps OPT701 for LED source		1

Australian and international patents. Technical data is subject to change without notice as part of our program of continuous improvements. Class 1 Laser/ LED product, complies IEC60825-1 and 21CFR1040.10.

OPTIONAL STANDARDS COMPLIANCE

Description	P/N
TIA/EIA 526-14A standard compliance for 850 nm LED sources: CPR & into 62.5 µm fiber. Including 62.5 µm mandrel wraps. Output power tolerance ± 3 dB	OPT093
IEC 14763-3 standard compliance for LED sources: CPR & into 50 µm fiber. Including 50 µm mandrel wrap	OPT094
IEC 14763-3 standard compliance for 850 nm LED sources: CPR & into 62.5 µm fiber. Including 62.5 µm mandrel wrap	OPT095

AUTHORIZED DEALER



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DEFENCE

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