



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 loss 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





The small KI 9800 Pocket Fiber Source is used with an Optical Power Meter for loss testing on single mode, multimode 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.

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

Tough construction includes general moisture resistance, rubber corners and proven 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.

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 and 2.5 mm connectors. Instruments come with 3 popular connector adaptor styles. Metal free adaptors avoid contamination of connectors in high power systems. (Not for KI 9809)

1310 / 1490 / 1550 nm laser sources are ideal for single-mode testing, in combination with the KI 9600 series of power meters.

850 / 1300 nm LED sources are ideal for multimode testing, in combination with the KI 9600 series of power meters. They feature standards compliant beam geometry & modal distribution across the fiber core, resulting in better test consistency when different sources are used to test the same sample.

The 650 / 660 nm LED source option is ideal for POF testing, in combination with the KI 9600XL 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.

The 850 nm VCSEL source may be used for multimode fiber testing, in combination with the KI 9600 series of power meters. VCSEL sources give poor measurement stability, and so should only be used if required.

The VFL source is a 635 nm laser Visual Fault Locator which offers improved ruggedness and connector options compared to other types.

Other Kingfisher power meters provide additional features such as memory or data logging.

SPECIFICATIONS

	1310/1550 nm Laser	1310/1490/1550 nm Laser	850 nm VCSEL	635 nm Laser	850/1300 nm LED	660 nm LED	Comments
Output Power, dBm, Fiber Type, μ m	0 @ 9/125	-4 @ 9/125	-2 @ 50/125	-2 @ 9/125	-23 @ 62.5/125 -35 @ 9.5/125	-6 @ 1000 POF	\pm 1 dB
Short term stability, dB	0.04 ¹	0.06 ¹	0.12 ¹	NA	0.01	0.01	For 15 min, typ \pm Δ 2°C, after warm up
Stability over temp, dB	0.6	0.6	0.8	NA	0.35	0.35	Typical, over temperature
λ initial tolerance, nm	20	20	20	20	30	5	At 25 °C
λ width, nm	3	< 1	< 1	3	850: 35, 1300: 100	10	FWHM, typical
λ nm/°C	0.4	0.1	0.1	0.1	0.4	NA	Typical
Coupled Power Ratio (CPR)	NA	NA	NA	NA	CPR CAT=1 into 50 μ m ²	NA	850 nm: 20-24 dB, 1300 nm: 16-20 dB
Reconnection repeatability, dB	0.1				0.05	NA	95 % confidence
Modulation	270 Hz, 1 kHz, 2 kHz, \pm 2 %						
Blinking 2 Hz	NA			Yes	NA	Yes	
Laser output	Adjustable over 3 dB in 0.1 dB steps						

Note 1: ORL < -25 dB. Note 2: LED sources CPR compliant for 50 μ m 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	25 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. Blue is associated with PC. Green is associated with APC. Interchangeable connectors are not relevant for KI9809.

AUTHORIZED DEALER

ORDERING INFORMATION

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

Instrument	P/N
Instrument, VFL, 635 nm Laser	KI 9807
Instrument, VFL, 635 nm Laser, APC	KI 9807-APC
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 μ m fiber mandrel wraps OPT701 for LED source		1
Soft carry pouch		1

OPTIONAL STANDARDS COMPLIANCE

Description	P/N
TIA/EIA 526-14A compliance, 850 nm LED: CPR, 62.5/125. Power Uncertainty \pm 3 dB	OPT093
IEC 14763-3 compliance, LED: CPR, 50/125	OPT094
IEC 14763-3 compliance, 850 nm LED: CPR, 62.5/125	OPT095

Australian and international patents. Technical data is subject to change without notice as part of our program of continuous improvements. Class 1 Laser / LED & Class 2 VFL Laser products comply with IEC60825-1 and 21CFR1040.10.



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