



KI3800 SERIES

OPTICAL LIGHT SOURCE

The KI 3800 series Optical Light source is used to test loss in optical fiber systems, at 1 to 2 wavelengths.

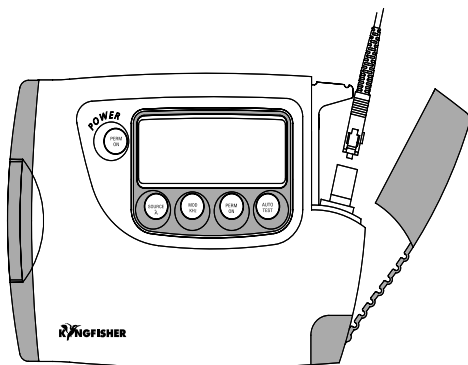
High productivity, high stability, high availability and ease of use combine to achieve superior measurement confidence.

OPTICAL COMMUNICATIONS TEST APPLICATIONS

- ✓ Singlemode & multimode cable testing
- ✓ General testing & maintenance

FEATURES

- ✓ Compact, rugged & light weight
- ✓ Autotest compatibility with other instruments
- ✓ Interchangeable connectors including SFF styles
- ✓ 3 year warranty
- ✓ Excellent optical power stability
- ✓ Excellent re-connection repeatability
- ✓ Very long battery life
- ✓ Low skill operation
- ✓ Optical test tone generator



ISO 9001

TRACEABLE CALIBRATION



3 ~ 7 YEAR WARRANTY



FTTx

TELCO / CATV

LAN / WAN

DEFENCE

EDUCATION

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AUTOMOTIVE



The KI 3800 Optical Light Source is used with an Optical Power Meter for measuring loss on singlemode and multimode fiber cable.

When used with an Autotest compatible Power Meter or Loss test set, one button automated multi-wavelength loss testing is achieved.

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 emitters are optionally compliant with TIA/IEC standards for Coupled Power Ratio (CPR), Center Wavelength and Spectral Width.

All emitters are fiber connected for improved stability. Switchable λ options give switched wavelengths through one connector.

The long battery life of nearly 15 working weeks eliminates the requirement for rechargeable batteries and time consuming re-charging procedures. The instrument works with C cell or AA batteries, if an AA-to-C battery converter is used.

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

SPECIFICATIONS

	Laser	LED	Comments
Output Power, dBm	-6	-23 to 62.5 μ m -38 to 10 μ m	\pm 1 dB
Short term, stability dB	0.04 ¹	0.01	For 15 min, typ \pm Δ 2°C, after warm up
Stability over temp dB	0.6	0.35	Typical, over temperature
λ initial tolerance, nm	20	30	At 25°C
λ width, nm	3	35 / 100 (850 / 1300)	FWHM, typical
λ nm/°C	0.4	0.4	Typical
Reconnection repeatability, dB	0.1	0.05	95 % confidence
Modulation	270 Hz, 1KHz, 2 KHz, \pm 2 %		
Laser output	3 dB in 0.05 dB steps		

Note 1: ORL < -25 dB.

GENERAL SPECIFICATIONS

Battery life	600 hrs at Autotest
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	-15 to 55 °C
Storage Case	-25 to 70 °C Polycarbonate, 1 metre drop tested
Power	2 alkaline C cells (7.6 A/Hr). AA size batteries accommodated. Selectable auto-off, low battery indicator.

OPTIONAL ACCESSORIES

Carry case for 2 instruments	OPT153
KI 3000 accessory pack, it includes: Soft pouch, Leather holster, 1.25 & 2.5 mm clean stick, connector clean cloth, AA-to-C battery converter	OPT146

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.

ORDERING INFORMATION

Please enquire for other combinations.

Instrument	Ports	P/N
850 nm LED	1	KI 3810-MP
850 / 1300 nm LED	1	KI 3812-MP
1310 nm laser, PC	1	KI 3820-MP
1300 / 1550 nm laser, PC	1	KI 3822-MP
1300 / 1550 nm laser, APC	1	KI 3822-APC-MP

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

STANDARD ACCESSORIES

Item Description	Quantity
SC connector adaptor OPT046 blue or OPT046G green	1
FC connector adaptor OPT051	1
ST connector adaptor OPT040	1
Operation manual	1

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. You can order any number of connector adaptors. Order quantity two of each type.

INSTRUMENT OPTIONS

Description	P/N
TIA/IEC standard compliance for LED sources: CPR & λ into 50 μ m fiber. Including 50 μ m mandrel wrap. Output power tolerance \pm 3 dB.	OPT091
TIA/IEC standard compliance for LED sources: CPR & λ into 62.5 μ m fiber. Including 62.5 μ m mandrel wrap. Output power tolerance \pm 3 dB	OPT093



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