

KI 7800 SERIES

LED & LASER
SOURCES

FIBRE OPTIC TESTING APPLICATIONS

General testing & maintenance
Singlemode and multimode
Fibre identification

FEATURES

Autotest compatible
Easy to use
Interchangeable connectors
850, 1300, 1310, 1550
source options
switched dual λ sources
140 hours battery life
RS232 computer & printer
interface
Rugged construction



A GENERAL PURPOSE HANDHELD INSTRUMENT

FOR TESTING FIBRE OPTIC SYSTEMS

 **KINGFISHER**

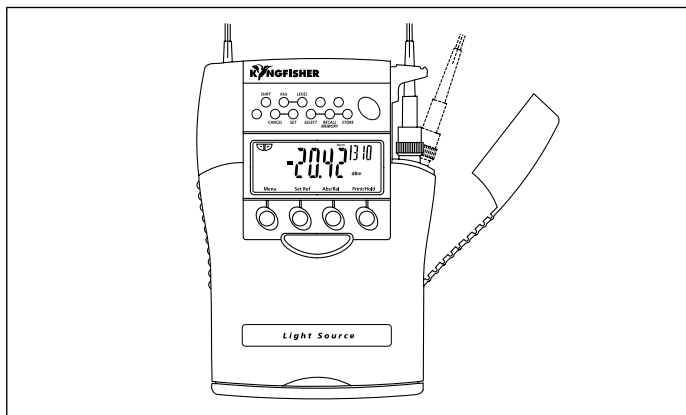
The KI 7800 Source is used for field or laboratory testing of fibre optic systems. It features superb productivity and ease of use, with an ergonomic and rugged design.

The LED and laser options are inexpensive solutions for general multimode and singlemode testing and fibre identification. Up to 3 sources can be specified per instrument.

These sources can be used with **Autotest** compatible meters to automate loss testing functions, and provide automatic λ identification. A single or dual λ source and meter in Autotest mode automatically measures single or dual wavelength attenuation in one direction.

The RS232 port is useful for on-site documentation using a PC or printer, or for external control. The instrument incorporates dust and drop protected interchangeable connectors and simple menu driven operation.

All emitters are fibre connected for improved measurement performance. LED options for multimode testing have a built in mode equaliser, so an external mandrel wrap is not required. Laser options for singlemode testing are stabilised by optical feedback within the laser package. Switchable λ (wavelength) options give switched wavelengths through one connector.



SPECIFICATIONS	Laser	LED	Units	Comments
Battery life	140	140	hours	typical
Output power ¹	-7	-20	dBm	± 1 dB
Stability, after warm up	0.04	0.02	dB	for 15 min, typ, Δ 2 °C
Stability	0.6	0.2	dB	typical, over temperature
λ initial tolerance	20	30	nm	at 25 °C
Spectral width	3	note ²	nm	FWHM typical

Note 1: laser into singlemode fibre, LED into 62.5/125 m multimode fibre. Note 2: 850 nm LED = 50 nm, 1300 nm LED = 100 nm.

Size	190 x 130 x 70 mm, 7.9" x 5.4 x 2.9"
Weight	500 gm, 1.1 lb. Shipping 2 Kg, 4.4 lb
Operating / storage	-10 to 55 °C / -25 to 70 °C
Power	2 alkaline C cells (7.6 A/hr) or external 9V DC with 2.5mm +ve pin. Selectable auto-off, low battery indicator, backlit display.
Modulation	270 Hz, 1, 2 KHz, \pm 2%, square wave.
Laser output	Adjustable over 6 dB in 0.01 dB steps.
Hidden keypad	For setting advanced functions.
RS232	3.5 mm jack connector, 0.3 - 56 Kbaud, default 9.6 K.
Case	Polycarbonate, 1 metre drop tested.

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ORDERING INFORMATION

To order an instrument. Specify part number as: KI 78XX - [PC or APC] - [Connector style].

Instrument	Ports	p/n
850 nm LED	1	KI 7801
1300 nm LED	1	KI 7802
850 nm / 1300 nm switchable LED	1	KI 7803
850 nm LED & 1310 nm laser	2	KI 7804
1310 nm laser	1	KI 7820
1550 nm laser	1	KI 7821
1310 nm / 1550 nm switchable laser	1	KI 7822
850 nm LED, 1310 nm / 1550 nm switchable laser	2	KI 7823

Standard accessories

Included with instrument: ST, FC, SC optical connector adaptors, manual, batteries, power and λ calibration certificate, carry strap, pouch & protective holster.

Connector options

This instrument is equipped with interchangeable optical connector adaptors. For LED sources the ferrule type is PC. For laser sources it is user specified as either PC or APC. Green is associated with APC connectors. You can order any number of connector adaptors.

Interchangeable connector adaptors

ST	OPT040	E2000	OPT060
SC,	OPT046	E2000, green	OPT060G
SC, green	OPT046G	LSA / DIN47256	OPT071
FC	OPT051	MU	OPT080
D4	OPT055		

Optional accessories

Carry case, 2 instruments	OPT153
Carry case, 4 instruments	OPT154
Power pack, 90-240V IEC	OPT103B
Printer and accessories	OPT187
Paper rolls & printer ribbon	OPT183

Please enquire for non standard connectors, patch leads, and laser specifications. Also available: sources, meters, loss test sets, return loss meters, attenuators, test kits, visible fault locators, talk sets and cold clamps.

Australian and international patents. Technical data is subject to change without notice as part of our program of continuous improvements. Therefore please verify critical parameters before ordering. Class 1 laser or LED product, complies IEC825-1 and 21CFR104

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