

KI 7010 SERIES

AUTOMATED OPTICAL ATTENUATOR

OPTICAL COMMUNICATIONS TESTING APPLICATIONS

Bit Error Rate (BER)
Optical Margin
System Loss Simulation
System Acceptance
Power Meter Linearity
Optical Components
Receiver Sensitivity

FEATURES

Linearity 0.03 dB
Range 60 dB
Resolution 0.05 dB
Power Capability +23 dBm
Low Return Loss 45 dB
Manual, Relative, Step and
Program Control
RS232 Computer / Printer
Interface
200 - 600 Hours Battery Life
Interchangeable Optical
Connector
Rugged polycarbonate case
PC Software Available



A HIGH PRECISION HANDHELD INSTRUMENT FOR

TESTING OPTICAL COMMUNICATIONS SYSTEMS

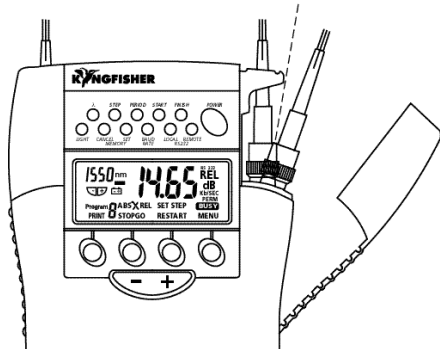
 **KINGFISHER**
INTERNATIONAL

The KI 7010 Series Automated Optical Attenuators are high precision handheld instruments for field or laboratory testing of optical communication systems. These instruments feature superb productivity, ease of use and rugged design.

The optical characteristics include power handling up to +23 dBm, return loss of a low 45 dB (optional 60 dB) and low wavelength dependence. Calibration is performed at every attenuator position in 0.05 dB increments, ensuring ultimate linearity and accuracy over the full 60 dB range.

The elegant ergonomic design incorporates dust and drop protected interchangeable optical connectors, simple menu driven 5 button automated operation, and battery life of 200 - 600 hours from 2 alkaline C cell batteries. The housing incorporates impact absorbing corners for drop protection.

Operational modes available include: manual, relative, step, program and remote. The instrument can be pre-programmed with up to 15 different user programs for use by unskilled personnel. In addition the RS232 port can be used for remote control, or to drive a printer for on-site documentation of results. Programming set-up is accessed via a hidden keypad.



SPECIFICATIONS

	Singlemode	
Calibration	1310 & 1550	nm
Linearity / λ tolerance	0.0004 dB/ nm	dB \pm 0.05 dB
Return Loss	45 / 60 (u)	dB
Fibre Type	9.5 / 125	u
Resolution	0.05	dB
Power Capability	+23	dBm
Range	2.5 - 60	dB
Insertion Loss	<2.5	dB
Polarisation Dependent Loss	<0.1	dB

Absolute insertion accuracy \pm 0.3 dB. Note: accuracy achieved in use will depend on connector performance.

NATA traceable calibration certificate supplied.

15 programs can be stored & recalled.

Step mode allows user to select any step size.

Program mode gives automated start / step / period / end values.

Size	190 x 130 x 70 mm, 7.9" x 5.4 x 2.9.
Weight	750 gm, 1.6 lb. Shipping 1 kg, 2.2 lb.
Operating / storage	-10 to 55 °C / -25 to 70°C.
Power	2 alkaline C cells or external 9V DC with 2.3mm +ve pin. Selectable auto-off, low battery indicator, backlit display.
Hidden keypad	For setting advanced functions.
Case	Polycarbonate, 1 metre drop tested.
RS232	3.5 mm jack connector, 0.3 - 56 Kbaud 9.6 K.

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AUTOMATED OPTICAL ATTENUATOR

ORDERING INFORMATION

Instrument	p/n
1310 / 1550 nm attenuator, PC connector	KI7010
1310 / 1550 nm attenuator, APC connector	KI7010-APC
1310 / 1550 nm low reflection attenuator, APC connector	KI 7010u-APC

Standard Accessories

Included with instrument: ST, FC, SC optical connector adaptors (two each), manual, batteries, NATA traceable calibration certificate, carry strap, soft carry pouch and leather holster.

Connector Options

There are two connectors per instrument. This instrument is equipped with interchangeable optical connector adaptors. The ferrule type is fixed and customer specified as either PC or APC. Green is associated with APC connectors. You can order any number of connector adaptors. The PC connector option may reduce achieved return loss.

Optional Interchangeable Connector Adaptors

For this instrument, quantity of 2 of each style are required.

SC, green	OPT046G	E2000	OPT060
E2000, green	OPT060G	LSA / DIN47256	OPT071
MU	OPT080	LC	OPT072
D4	OPT055		

Optional accessories

Dual carry case	OPT153
Mains power pack, Australian	OPT102B
Mains power pack, 80-240V IEC	OPT103B
Software, Labwindows Driver	Free on the website

Please enquire for warranty extension options.

Please enquire for traceable re-calibration services.

Please enquire for non standard connectors, test kits and other accessories. Also available sources, meters, loss test sets, 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.



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