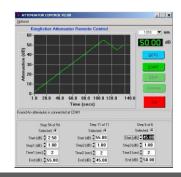
KI 7000B SERIES





OPTICAL COMMUNICATIONS TEST APPLICATION

- Transmission Equipment Commissioning
- Maintenance
- Quality Assurance
- Research & Development





Revision 12

The KI 7000B series Automated Variable Optical Attenuator is an easy to use instrument for testing optical transmission equipment. It combines superb accuracy with high productivity.

Instrument versions work for singlemode, multimode and POF fiber types.

FEATURES

- Compact, rugged & light weight
- Interchangeable connectors
- Long battery life
- Sunlight readable display
- 3 year Calibration Cycle
- User defined sequencing
- Remote control PC software
- Up to 4 calibrated wavelengths
- High absolute accuracy
- Low wavelength sensitivity
- Good ORL, PDL & PMD performance
- High optical power capability
- Made in Australia





Automated variable optical attenuator

This attenuator provides optimum performance for testing fiber optic transmission systems, sub systems and components.

A combination of excellent optical characteristics enables confident testing of high speed; high power systems which require superior power handling, ORL, PMD and PDL characteristics.

Very flat wavelength response enables confident testing of CWDM / DWDM systems. The instrument wavelength setting is irrelevant in most practical situations.

Excellent linearity and absolute accuracy enables precision linearity testing of sub systems and components.

The patented metal free interchangeable connectors avoid critical contamination of connectors used in high power applications.

Operational modes include: manual, relative, step, program, and remote control via a PC. The instrument can be pre-programmed with up to 15 different user programs for improved productivity.

The PC software is used to provide external control, and is available free from www.kingfisherfiber.com

Superior reliability is backed with 3 ~ 7 year warranty.

The combination of features provides superior value to the user.

SPECIFICATIONS

Parameters	Single mode	Multimode	POF
Fiber type	9.5 / 125 μm	50 /125 μm or 62.5/125 μm	900 μm /1 mm
Range	2.0 ~ 60 dB	3.0 ~ 60 dB	5 ~ 60 dB
Resolution	0.05 dB	0.05 dB	0.05 dB
Linearity¹/ Repeatability	0.03 dB	0.1 dB	0.1 dB
Absolute uncertainty1,2	0.3 dB	0.3 dB	1 dB
Power capability	+30 dBm	+30 dBm	+30 dBm
Optical return loss3 (ORL)	60 dB	60 dB	N/A
Polarisation dependent loss (PDL)	< 0.1 dB	< 0.1 dB	N/A
Thermal stability over temperature	±0.02 dB	±0.02 dB	±0.02 dB
Polarisation Mode Dispersion (PMD)	<1 ps	N/A	N/A
Operating λ range⁴	1200 ~ 1650 nm	700 ~ 1400 nm	N/A
Calibration λ	1310, 1490, 1550, 1625 nm	850, 1300 nm	650 nm
λ dependence ⁴	1300 ~ 1625 nm:	850 ~ 1300 nm:	N/A
•	< ±0.25 dB up to 15 dB	< ±0.5 dB up to 20 dB	
	< ±0.5 dB up to 20 dB		
λ dependence over DWDM	1490 ~ 1610 nm:	N/A	N/A
S/C/L band	< ±0.2 dB up to 15 dB		
	< ±0.3 dB up to 20 dB		

Note 1: At calibration wavelength.

Note 2: Accuracy achieved in use will depend on connector performance.

Note 3: Using APC connectors, or limited by connector performance, which is typically 45 dB for single mode PC or 28 dB for multimode PC connectors.

Note 4: POF λ performance is limited by POF fiber λ loss characteristics. The POF attenuator element is λ insensitive.

OPERATION FEATURE HIGHLIGHTS

- 15 programs can be stored & recalled.
- Step mode allows user to select any step size.
- Program mode gives automated start / step / period / end values.
- Attenuation is unchanged when instrument is turned on or off.

GENERAL SPECIFICATIONS

Parameters	Value
Battery life	200 ~ 600 hrs
Size	190 x 130 x 70 mm, 7.5 x 5.1 x 2.8"
Weight	0.52 kg, 1.146 lb. Shipping 1.5 kg, 3.31 lb
Operating / Storage	-15 to 55 °C / -25 to 70 °C
Case	Polycarbonate, 1 metre drop tested
Hidden keypad	For setting advanced functions
RS232	3.5 mm jack connector, default baud 9.6 K
Power	2 Alkaline C cells (7.6 A/Hr) or external 9 V DC
	with 2.5 mm +ve pin. Selectable auto-off, low
	battery indicator, backlit display

Australian and international patents. Technical data is subject to change without notice as part of our program of continuous improvements.





ORDERING INFORMATION

Description	P/N
Instrument, Attenuator 1310-1490-1550-1625 nm	KI 7013B
Instrument, Attenuator 1310-1490-1550-1625 nm, APC	KI 7013B-APC
Instrument, Attenuator 850-1300 nm, 50/125	KI 7020B
Instrument, Attenuator 850-1300 nm, 62.5/125	KI 7021B
Instrument, Attenuator 650 nm, POF	KI 7030B

Please enquire for other wavelength combinations.

STANDARD ACCESSORIES

Description	Quantity	
	KI 701xB /KI 702xB	KI7030B
SC connector adaptor blue (OPT046)	2	2
LC connector adapter (OPT076)	2	
ST connector adaptor (OPT040)	2	2
SMA connector adaptor (OPT082)		2
PC software & RS232 Cable	1	1
Operation manual	1	1
C cell batteries & AA-to-C size battery converter	2	2
Calibration certificates	1	1
Carry Pouch, Carry strap & Leather protective holster	1	1

OPTIONAL INTERCHANGEABLE CONNECTOR ADAPTORS

Description	P/N	Description	P/N
D4	OPT055	FC	OPT051
E2000/LSH, green	OPT060G	MU	OPT080
E2000/LSH	OPT060	SMA 905/906	OPT082
LSA / DIN47256	OPT071		

This instrument is supplied with metal-free sleeve optical interchangeable connector adaptors. Green is associated with APC.

OPTIONAL ACCESSORIES

Description	P/N
Carry case for 2 instruments	OPT153
Power pack, 90 ~ 240V IEC	OPT103B
USB-RS232 converter	OPT188

AUTHORISED DEALER



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