

KI 2600 Series Hand Held Fibre Power Meter

A fully-featured Hand Held Optical Power Meter used for testing fibre optic communications systems.

Superior measurement confidence is achieved through a combination of excellent basic accuracy, intuitive use and rugged reliability.

Options cover power levels from +33 to -70 dBm, all useful wavelengths, many connector styles including duplex / ribbon, and large core POF fibre.

Applications

- System power testing
- Attenuation testing
- Fibre identification
- Fault finding & continuity testing



Features & Benefits

- Reliable, rugged, versatile and simple to use
- Excellent battery life or USB power/charge
- LCD is large, clear, sunlight readable & backlit
- Interchangeable connectors with dust cap/tilt bail
- 24 genuine 1% calibration wavelengths
- Memory with text, timestamp and USB dump
- Simultaneous 3 λ loss display with Autotest source
- Flexible real-time PC reporting software
- Multi-Fibre ID tone for fibre identification
- Optional visual fault finder
- Power averaging mode for modulated signal
- Max / Min recording
- 3 years calibration cycle
- 3 ~ 7 year warranty
- Made in Australia



Active | Passive | Test Equipment | Tooling | Cable | Fibre Management

For further information:
www.fibreoptic.com.au
+61 3 9757 3000

The KI 2600 Hand Held Fibre Meter measures absolute or relative light levels and test tones in fibre optic systems.

Autotest provides fast, easy and automatic multi λ (wavelength) loss testing up to 6 λ , with up to 3 λ displayed simultaneously, along with the respective source nominal power levels. Any Kingfisher Autotest light source/LTS with matching λ can be used.

The meter displays mW, μ W, nW, dB, dBm to 0.01 dB resolution, with no range changing delays. A separate reference for each λ is stored and displayed. Superior high power performance is achieved.

Unique in the industry, the tight Total Uncertainty specification covers all power levels, temperatures, connectors and fibres, without warm up or user dark current offset.

Interchangeable connectors are dust and drop protected. SC adaptors are supplied, with others available including small form factor LC styles. Metal free adaptors avoid contamination of connectors in high power systems.

Loss test results can be stored in the large memory, along with a user-input cable name and timestamp. Results can be copied onto a USB memory key with one button

push. Alternatively, live readings can be put directly onto a customer report computer using KITS™ customizable Excel-based reporting software. Reports can be easily customized for any terminology, language or format. KITS™ also provides a one-button file dump to a PC with Windows OS.

When used with Multi-Fibre ID sources, the Multi-Fibre ID tone feature uniquely identifies up to 12 fibres, in addition to common test tones.

The VFL (Visible Fault Locator) option offers simple fault finding and continuity testing.

Flexible power options include a choice of batteries, with a jumper selectable battery charger. External power is via USB.

See alternative brochure for instrument versions with large area detectors up to +33 dBm. For use with e.g. ribbon fibre, MPO/MT/MTP and MTRJ, large core fibre such as POF, fibre bundles, high power pump lasers, other general optical applications etc.

Technical Specifications

Re- sponse wave- length (nm)	Damage level (dBm)	Calibration wavelength (nm)	Power range (dBm)	Tone & au- totest min (dBm)	Mid range linearity (dB) ¹	Calibration accuracy (%) ²	Polarization insensitivity (dB)	Total uncer- tainty (dB) ^{3,5}	Wavelength sensitivity \pm 30 nm ⁵ dB
InGaAs detector									
600 ~ 1700	+15	780, 820, 850, 980 1270, 1290, 1300, 1310, 1330, 1350, 1370, 1390, 1410, 1430, 1450, 1470, 1490, 1510, 1530, 1550, 1570, 1590, 1610, 1625, 1650	+10 ~ -60 +10 ~ -70	-45 -50	0.02	1% (0.06 dB)	< 0.005	0.3	0.03
H5 (InGaAs) detector									
800 ~ 1700	+27 ⁴	820, 850, 980 1270, 1290, 1300, 1310, 1330, 1350, 1370, 1390, 1410, 1430, 1450, 1470, 1490, 1510, 1530, 1550, 1570, 1590, 1610, 1625, 1650	+24 ~ -50 +24 ~ -60	-35 -40	0.02	1% (0.06 dB)	< 0.005	0.35	0.03
Ge detector									
600 ~ 1650	+25	635, 650, 660, 780, 820, 1590, 1610, 1625, 1650 850, 980, 1270, 1290, 1300, 1310, 1330, 1350, 1370, 1390, 1410, 1430, 1450, 1470, 1490, 1510, 1530, 1550, 1570	+15 ~ -50 +15 ~ -60	-40 -50	0.04	1% (0.06 dB)	< 0.005	0.5	0.03

Note 1: Mid range linearity excludes top 5 dB and bottom 10 dB of range.

Note 2: Calibration condition: non coherent light, -35 \pm 5 dBm, 23 \pm 1°C, \pm 1 nm, 10 \pm 3 nm FWHM, PC ceramic connector, 100 μ m fibre.

Note 3: Includes contributions of: varying optical connector types, calibration uncertainty, full temperature, dynamic range and fibre core diameter up to 200 μ m.

Note 4: H5 can sustain the damage level for 2 minutes.

Note 5: At calibration wavelengths in bold type.

General Specifications

Battery life	Up to 1000 hrs laser & backlit off / 200 hrs laser in blink mode
Size WxHxD (mm)	105 x 190 x 35
Weight unit/shipping (kg)	0.420 / 1.5
LCD size (mm)	74 x 55
Case material	Polycarbonate / rubber edges & corners
Physical resistance	1m drop test, moisture resistant
Dust cap	Captive, functions as tilt bail when slid open
Operating temp (°C)	-15 to 55
Storage temp (°C)	-25 to 70
Relative humidity (%)	0 ~ 95
Calibration cycle (years)	3
Power	2 Alkaline AA cells Or 2 x NiMh AA cells, user selectable charging; Ext power input via micro USB; Selectable auto-off, low battery indicator, backlit display
Standard accessories	SC adapter (2 for KI2601 models), operation manual, calibration certificates, carry pouch, carry strap & KITS™ Recording/Reporting software <i>Note: A range of optional accessories available. Contact FOS for details.</i>

VFL Specifications (KI2601 series only)

Output power	+2 ± 1 dBm
Wavelength (nm)	650
Wavelength width (nm)	3
Modulation (hZ)	CW, 2, 270, 1k, 2k

Ordering Information

Description	Part number
KI 2600 Series	
Instrument, Power Meter InGaAs	KI2600-InGaAs
Instrument, Power Meter InGaAs, VFL	KI2601-InGaAs
Instrument, Power Meter H5	KI2600-H5
Instrument, Power Meter H5, VFL	KI2601-H5
Instrument, Power Meter Ge	KI2600-Ge
Instrument, Power Meter Ge, VFL	KI2601-Ge

Please enquire for non-listed specifications such as: Wavelength, Power Levels, PC / APC Connectors.

Active | Passive | Test Equipment | Tooling | Cable | Fibre Management

For further information:
www.fibreoptic.com.au
 +61 3 9757 3000

Page 3 of 3

FOS
 Fibre Optic Systems