

Premium Optical Power Meter Comparison

Revision 5 (17Feb2022)

Specification	Meaning	KI 2600-InGaAs	KI 2600-H5	JDSU OLP-85 ²	AFL NOYES OPM 5-3D	EXFO FPM-602
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Power Meter

Detector type	InGaAs is better	InGaAs	InGaAs-H	InGaAs-H	InGaAs	Ge
Captive dust cover	No is bad	Yes	Yes	Yes	No	Not useful
Detector Options	H: high power	Ge, Si, H, Large Area, Very High Power	Ge, Si, Large Area, Very High Power	None	Ge, H	H (only Ge based)
Calibration accuracy	Smaller is better	± 0.06 dB (1%)	± 0.06 dB (1%)	± 0.25 dB (6%)	± 0.25 dB (6%)	± 0.2 dB (5%)
Power resolution	Smaller is better	0.01 dB	0.01 dB	0.01 dB	0.01 dB	0.01 dB (10 to -60 dBm)
Power display range	Big is better	+10 to -70 dBm	+24 to -60 dBm	+26 to -75 dBm	+10 to -75 dBm	10 to -70 dBm
Specified power accuracy range	Big is better	+10 to -70 dBm	+24 to -60 dBm	+26 to -60 dBm ²	Not specified	+10 to -40, no zeroing
Power accuracy over range & temp		0.3 dB (+10 to -70 dBm)	0.35 dB (+24 to -60 dBm)	0.5 dB (+26 to -60 dBm ²)	Not specified	Not specified
Damage level	More is better	+15 dBm	+27 dBm	+26 dBm	+10 dBm	+10 dBm
User Zeroing required	No is good	No	No	No	Not specified	Yes
λ Sensitivity 30nm	Smaller is better	0.03 dB	0.03 dB	Not specified	Not specified	Not specified
Polarisation sensitivity	Smaller is better	< 0.05 dB	< 0.05 dB	Not specified	Not specified	Not specified
Actual Calibration λ	More is better	28 wavelengths	24 wavelengths	7 wavelengths	6 wavelengths	44 wavelengths
Traceable calibration		ILAC/ISO 17025	ILAC/ISO 17026	No	No	No
Re-calibration cycle	More is better	3 years	3 years	3 years	5 years	3 years
Fiber type		Up to 200 μ	Up to 200 μ	Up to 62.5μ	Not specified	Not specified

'Autotest'

Trade name		'Autotest'	'Autotest'	Auto-λ/multi-λ Tests	'Wave ID'	Auto-switching
Autotest compatibility with other products	More is better	All KI2000, KI7000, KI9000, KI3000 Sources, LTS & Two-Way	All KI2000, KI7000, KI9000, KI3000 Sources, LTS & Two-Way	OLS-3x, OLS-5x and OLS-8x	OLS 1, OLS 2, OLS 4 with Wave ID	FLS 600 sources
Autotest sensitivity	Lower is better	-50 dBm	-40 dBm	-50 dBm	-50 dBm	-50 dBm

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Source Serial No capture	Yes is better	Yes	Yes	No	No	No
Remote referencing	Yes is better	Yes	Yes	No	No	No
General						
Visual Fault Locator	Yes is better	Option	Option	No	No	No
Display type		Larger custom LCD	Larger custom LCD	LCD Colour	Large custom	Small custom LCD
Display capability	More is better	3-5 λ	3-5 λ	4 λ	up to 2 λ	1 λ
Sunlight readability		Good	Good	Not specified	Good	Good
Backlight	Yes is better	Yes	Yes	Adjustable brightness	Yes	Yes
Tilt Bail	Yes is better	Yes	Yes	No	No	No
Lanyard mount	Yes is better	Yes	Yes	No	Yes	Yes
Easy grip, all adult hands	Yes is better	Yes	Yes	No (much too thick)	Yes	No (much too thick)
Tone detection Hz	More is better	150 ~ 9999 Hz	150 ~ 9999 Hz	270 Hz, 1 kHz, 2 kHz	270, 330, 1k, 2k Hz	270, 1k, 2k Hz
Multi-Fiber ID tone	Yes is better	Yes	Yes	No	No	No
Standard connector	More or specific interchangeable type is better	SC Interchangeable adaptor	SC Interchangeable adaptor	2.5mm universal adaptor	Interchangeable adaptor	Interchangeable adaptor
Connector options		13	13	2	6	14
Metal free connector ¹	Yes is better	Yes	Yes	No	No	No
Memory / Data						
Memory	More is better	1,000 four λ tests, unlimited on USB dump	1,000 four λ tests, unlimited on USB dump	up to 10,000 tests	500 fiber tests	1000 items
USB key dump	Yes is better	Yes	Yes	No	No	No
Memory & text	Yes is better	Yes	Yes	Yes	No	No
Memory & timestamp	Yes is better	Yes	Yes	Yes	No	No
Hold & Max / Min	Yes is better	Yes	Yes	No	No	Yes
PC interface		micro USB	micro USB	USB, Ethernet	USB	USB
Related software		KITS™ software Easily user modifiable	KITS™ software Easily user modifiable	OFS-355 Software	NOYES TRM Software	ToolBox software, not user modifiable
Software languages		44 languages	44 languages	Very limited	Very limited	Very limited
Test Data Security		Yes	Yes	No	No	No
Standards Based Pass / Fail	Yes is better	Yes	Yes	No	No	No

Specification	Meaning	KI 2600-InGaAs	JDSU OLP-85	AFL NOYES OPM 5-3D	EXFO FPM-602	
Mechanical/ Environment / Power						
Weight / Volume	Smaller is better	420 gm / 698 cc	420 gm / 698 cc	750 gm / 1491 cc	260 gm / 431 cc	480 gm / 1178 cc
Battery options		2x AA Alkaline / NiMh	2x AA Alkaline / NiMh	8x AA Alkaline or rechargeable LiON battery pack	2x AA Alkaline	Built-in rechargeable
Battery life hours	More is better	1000 hrs	1000 hrs	>11 hr (Alkaline) or >13 hr (LiON)	300 hrs	72 hrs
External power	Yes is better	Yes, via Micro USB	Yes, via Micro USB	Optional	Yes	Yes
On board charging	Yes is better	Yes, user selectable	Yes, user selectable	Yes (LiON battery option only)	No	Yes
Automatic power down		10 min after last key push or disabled	10 min after last key push or disabled	Programmable	5 min after last key push	Not specified
Operating temp	Bigger is better	-15 to 55 °C	-15 to 55 °C	-10 to +55°C	-10 to 50 °C	-10 to 50 °C
Storage temp	Bigger is better	-25 to 70 °C	-25 to 70 °C	-20 to +70°C	-30 to 60 °C	-40 to 70 °C
Warranty	Longer is better	3 ~ 7 years	3 ~ 7 years	1 year	5 years	3 years
Standard accessories		SC optical connector, User manual, ILAC/ISO 17025 traceable calibration certificates, Carry Pouch & strap, KITS™ Recording/Reporting software, USB cable	SC optical connector, User manual, Calibration certificates, Carry Pouch & strap, KITS™ Recording/Reporting software, USB cable	Shoulder case, Reporting software on USB stick, 2.5 mm universal optical adapter, User manual, Alkaline batteries (8x)	2x AA batteries, Protective rubber boot, USB cable, Windows® compatible software, Carry case, 1x customer specified adaptor	User guide, Calibration certificate, Instrument stickers in six languages, AC adapter/charger, Lithium ion battery, Shoulder strap, Hard carrying case, USB cable

Note 1: Kingfisher instrument is supplied with metal-free optical interchangeable connector adaptors, which avoid critical contamination of connectors used in high power applications.

Note 2: Comparison based on JDSU product manual. Beyond 60 dB, the accuracy / linearity specification may be meaningless, eg "± 0.5 dB, ± 0.1 nW"

Disclaimer: This comparison is based on our interpretation of published specifications. No liability is accepted for any inaccuracy. We would be pleased to amend anything found to be inaccurate.