## Pocket Size Optical Power Meter Comparison revision 4 (17Feb2022)

Specification Meaning KI0600-InGaAs IDSLI OL P-35 EXEC EDM-302 Noves CSM1-3								
	Meaning	KI9600-InGaAs	JDSU OLP-35	EXFO FPM-302	Noyes CSM1-3			
Meter		Pocket size	Pocket size	Handheld	Palm-sized			
Detector type	InGaAs is batter for longer λ	InGaAs	InGaAs	Ge	InGaAs			
Power range with specifications		+5 to -60 dBm	+5 to -50 dBm	Not specified & requires zero offset below -40 dBm	No specification			
Display Range		+5 to -60 dBm	+13 to -65 dBm	+10 to -65 dBm	+6 to -70 dBm			
Damage level (dBm)	More is better	+15	+16	No specification	No specification			
Uncertainty over power & temp range	Temp important!	0.3 dB (+5 to -60 dBm, -15 to 55 °C)	Not fully specified	Not specified & requires zero offset below -40 dBm	No specification			
Resolution (dB)	Smaller is better	0.01	0.01	0.01 above -50 dBm	0.01			
Linearity (dB)		0.04 (-50 to 0 dBm, -15 to 55 °C )	0.06 (-50 to +5 dBm, -5 to 45 °C)	Not specified & requires zero offset below -40 dBm	No specification			
Warm-up	Yes is bad	No warm up	No warm up	Yes, below 18 °C	No warm up			
User Zeroing required	Yes is bad	No	No	Yes, below -40 dBm	No			
Wavelength Sensitivity 30nm	Smaller is better	0.03 dB	No specification	No specification	No specification			
Polarisation sensitivity	Smaller is better	< 0.05 dB	No specification	No specification	No specification			
Calibration λ (nm)	More is better	850, 1300, 1310, 1390, 1490, 1550, 1610, 1625	Accuracy is specified only for 1310 nm	830, 850, 980, 1300, 1310, 1450, 1490, 1550, 1590,1625	850, 1300, 1310, 1490, 1550, 1625			
Accuracy at cal condition	Smaller is better	0.09 dB (2%)	0.2 dB (5%) @ 1310 nm only	0.2 dB (5%)	0.3 dB (7%)			
Traceable calibration		ILAC/ ISO 17025	No	No	No			
Re-calibration cycle	More is better	3 year	3 year	3 years	2 years			
General								
Auto λ sensing	Yes is better	No	Yes	yes	No			
Tone detection Hz for Fiber Identification	More is better	200 - 2500 Hz	270,1k, 2k Hz	270,1k, 2k Hz	270, 330, 1k, 2k Hz			
Multi-fiber ID detection	Yes is better	Yes, 12 fiber	No	No	No			
Connector adapter type		Interchangeable adapter, including universal types	Universal only	Interchangeable adaptor	Interchangeable adapter, including universal types			
Metal free connector	Yes is better	Yes	No	No	No			
Max / Min recording	Yes is better	Yes	No	No	No			
Display mode		dBm, dB, μW	dBm, dB, μW	dBm, dB, μW	dBm, dB, μW			
Store reference for each wavelength	Yes is better	Yes	Yes	Yes	Yes			
Save test result	Yes is better	Use Display Hold	Yes	No	No			
Weight / Volume	Smaller is better	150 gm / 251 cc	200 gm / 360 cc	400 gm / 1017.5 cc	180 gm / 233.5 cc			

Specification	Meaning	KI9600-InGaAs	JDSU OLP-35	EXFO FPM-302	Noyes CSM1-3
Batteries		2x AAA alkaline or re-chargeable	2x AA alkaline or re-chargeable	3x AA batteries	2x AA batteries
Battery life hours	More is better	300 hrs	200 hrs	300 hrs	300 hrs
Automatic power down		Yes (10 min after last key push)	Yes (automatic power off after 20 min)	No specification	Yes (5-minute auto-off)
Operating temperature	Bigger is better	-15 to 55 °C	-10 to 55 °C	-10 to 50 °C	-10 to 50 °C
Storage temperature	Bigger is better	-25 to 70 °C	-40 to 70 °C	-40 to 70 °C	-30 to 60 °C
Warranty year	Longer is better	3~7	1	3	1
PC interface	Yes is better	No	Optional	No	No
LCD with backlight	Yes is better	No	No	No	Yes
Standard accessories		1x SC adapter, 1x carry pouch, ILAC/ISO 17025 Calibration certificate, user quick quide	1x 2.5mm Universal adapter, AA alkaline batteries, operating manual, neck strap, belt bag	User guide, Certificate of Calibration, instrument stickers in four languages, AC adapter, connector adapter (FOA-XX), 3x AA batteries, wrist strap	2.5 mm Universal adapter cap, 2x AA batteries, user's guide, carry case.

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.