

The POF Pocket 9000 FiberTester Kit KI-TK054 is a high performance, cost-effective testing kit designed for plastic optical fiber (POF) up to 1 mm core diameter, large core 200/230 and 400/430 Plastic Clad Silica (PCS) fiber at 650/660 nm.

OPTICAL COMMUNICATIONS TEST APPLICATIONS

- POF and PCS power and loss testing
- POF and PCS cabling contractors



FEATURES

- Large 5 mm Si detector ideal for POF and PCS testing
- 3 year warranty & calibration cycle
- Calibrations at 6 - 10 wavelengths
- Industry standard screw-on connector adaptors
- Optical Test Tone Detection
- Long battery life
- Compact, rugged & light weight
- 2 off SMA-to-SMA 1 mm POF patchcords included
- Max / min recording
- Sunlight readable display
- Made in Australia



The POF Pocket 9000 FiberTester Kit KI-TK054 combines KI9809 650-660 nm LED light source, with SMA connector and KI9600XL-Si5 power meter with 5.0 mm large area Si detector and SMA adaptor.

The test kit includes 2 SMA-SMA POF patch-cords. It is for the end user to connect the test kit to the optical link, or make patch-cords

to their particular POF connectors.

The light source test tone function can be used with a compatible optical power meter for fiber detection, continuity testing and fault finding.

The long battery life eliminates the requirement for rechargeable batteries and time consuming re-charging procedures.

KI9600XL-Si5 POWER METER SPECIFICATIONS

Detector type	Response λ nm	Damage level dBm	Calibration λ nm	Power range dBm	Mid range linearity ¹ dB	Calibration Accuracy %	λ Sensitivity $\pm 30 \text{ nm}^2$ dB	Polarization Sensitivity dB	Total Uncertainty ³ dB
5.0 mm Si	350 ~ 1100	+10	470, 520, 635, 650, 660, 780, 850, 980	+5 ~ -60	0.02	2 %	0.03	< 0.005	0.3
					typical		typical	typical	max

1) Mid range linearity excludes top 3 dB and bottom 10 dB of range.

2) At calibration wavelengths in bold type.

3) Includes contributions due to: varying optical connector types, calibration uncertainty, full temperature, dynamic range and fiber type up to 1000 μm core diameter.

KI9809A LIGHT SOURCE SPECIFICATIONS

	660 nm LED	Optional 520 nm LED	Comments
Output Power Fiber Type	-6 dBm to 1mm POF	-10 dBm to 1mm POF	± 1 dB
Short term stability, dB	0.01	0.01	For 15 min, typ $\pm \Delta 2^\circ\text{C}$, after warm up
Stability over temp, dB	0.35	0.35	Typical, over temperature
λ initial tolerance, nm	5	10	At 25°C
λ width, nm	10	32	FWHM, typical
Modulation	270 Hz, 1 KHz, 2 KHz		± 2 %

GENERAL SPECIFICATIONS

KI 9600XL-Si5 Power Meter	
Battery life	300 hours
Tone detection	150 - 9999 Hz 1 %
Max / min	Recording feature for stability testing
Connector Interface	Mounting screw thread 7/8" 28 TPI – UN - 2B
KI 9809A Light Source	
Battery life	25 hours typical
Common	
Size	124 x 81 x 25 mm, 4.9 x 3.2 x 1.0"
Weight per unit	0.15 kg, 0.33 lb. Shipping 0.5 kg, 1.1 lb
Operating / Storage	-15 to 55°C / -25 to 70°C
Case	Polycarbonate, 1 metre drop tested
Power	2 alkaline AAA cells. Selectable auto-off, low battery indicator

Australian and international patents. Technical data is subject to change without notice as part of our program of continuous improvements. Class 1 Laser/ LED product, complies IEC60825-1 and 21CFR1040.10.

ORDERING INFORMATION

Description	P/N
Pocket POF 9000	KI-TK054

- Please enquire for warranty extension options, re-calibration services
- Standard 3 year warranty for instrument only

KI-TK054 includes:

Description	Qty
KI9809A (Instrument, Source 660 nm LED, 1 mm POF, fixed SMA, Blister Pack)	1
Standard accessory: OPT710 (Patchcord SMA-SMA, POF 1mm, simplex, 4 m)	1
KI9600XL-Si5 (Large area Si Power Meter)	1
Standard accessory: OPT710 (Patchcord SMA-SMA, POF 1mm, simplex, 4 m)	1
OPT203 (Option, Connector Adaptor XL 7/8-28, SMA 905/906)	1
OPT156 (Option, Carry Case for 2 Instruments)	1
Calibration certificates	2

OPTIONAL INTERCHANGEABLE CONNECTOR ADAPTORS FOR POWER METER

SC	OPT201
ST	OPT202
SMA 905/906	OPT203
SMI	OPT231
POF cable, mini Toslink, HFBR series, 2.5, 1.25 mm	OPT229
Toslink	OPT230

The industry standard 7/8" 28 TPI screw on connector adaptor.



OPT229, Power meter adaptor for POF cable, mini Toslink, HFBR series, 2.5, 1.25 mm.

AUTHORIZED DEALER