

# KI TK054 Series

## POF TEST KIT



### OPTICAL COMMUNICATIONS TEST APPLICATIONS

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



Revision 7

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.

### FEATURES

- Large 5 mm Si detector ideal for POF and PCS testing
- 3 year warranty & calibration cycle
- Calibrations at 8 wavelengths
- Industry standard screw-on connector adaptors
- Optical Test Tone Detection
- Long battery life
- Compact, rugged & light weight
- SMA-to-SMA 1 mm POF patch-cord included
- Max / min recording
- Sunlight readable display
- Made in Australia

The POF Pocket 9000 FiberTester Kit KI-TK054 combines KI9809 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 a SMA-SMA POF patch-cord. It is for the end user to connect the test kit to the optical link, or make patch-cord connection to their particular POF connector.

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 $\lambda$ nm	Damage level dBm	Calibration $\lambda$ nm	Power range dBm	Mid range linearity <sup>1</sup> dB	Calibration Accuracy %	$\lambda$ Sensitivity $\pm 30 \text{ nm}^2$ dB	Polarization Sensitivity dB	Total Uncertainty <sup>2,3</sup> dB
5.0 mm Si	350 ~ 1100	+10	470, 520, <b>635, 650, 660, 780, 820,</b> <b>850, 980</b>	+5 ~ -50 +5 ~ -60	0.02	2 % (0.09 dB)	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  $\mu\text{m}$  core diameter.

**KI9809A LIGHT SOURCE SPECIFICATIONS**

	660 nm LED	Optional 520 nm LED	Comments
Output Power (Fiber Type)	-6 dBm (1mm POF)	-10 dBm (1mm POF)	$\pm 1 \text{ dB}$
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
$\lambda$ initial tolerance, nm	5	10	At 25 $^\circ\text{C}$
$\lambda$ width, nm	20	32	FWHM, typical
Modulation	270 Hz, 1 KHz, 2 KHz		$\pm 2 \%$

Please enquire for 650nm LED light source option.

**GENERAL SPECIFICATIONS**

KI 9600XL-Si5 Power Meter	
Battery life	300 hours
Tone detection	200 - 2500 Hz $\pm 2 \%$
Max / min	Recording feature for stability testing
Connector Interface	Mounting screw thread 7/8" 28 TPI – UN - 2B
KI 9809A Light Source	
Battery life	35 hours in Autotest, 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 $^\circ\text{C}$ / -25 to 70 $^\circ\text{C}$
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
Kit, Small Pocket, POF 9000	KI-TK054

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

**STANDARD ACCESSORIES**

Description	Qty
KI9809A <sup>4</sup> (Instrument, Source 660 nm LED)	1
KI9600XL-Si5 <sup>4</sup> (Instrument, Power Meter Si 5mm)	1
OPT203 (Option, Connector Adaptor XL 7/8-28, SMA 905/906)	1

4) Refer to brochures of respective instrument for standard accessories included.

**OPTIONAL INTERCHANGEABLE CONNECTOR ADAPTORS FOR POWER METER**

Description	P/N
SC	OPT201
ST	OPT202
SMA 905/906	OPT203
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.

AUTHORISED DEALER

