



# KI 6151 & KI 6171 SERIES

OPTICAL FIBER IDENTIFIER

The Kingfisher Optical Fiber Identifiers are craft tools used during installation and maintenance of fiber optic systems.

These reliable instruments are easy to use and will enhance the performance of your staff.

## OPTICAL COMMUNICATIONS TEST APPLICATIONS

- ✓ Positive identification of fibers carrying traffic
- ✓ Positive identification of fibers carrying a test tone
- ✓ Approximate indication of optical power level
- ✓ Continuity testing of unterminated fibers

## FEATURES

- ✓ Very easy to operate. No menu!
- ✓ Thumb lock for consistency & hands free operation
- ✓ 4 easy-change chucks for: bare fiber, patch cords & ribbon fiber
- ✓ Identifies common test tones
- ✓ Identifies dominant traffic direction, audible alarm
- ✓ Approximate core power reading
- ✓ Low false detection & insertion loss
- ✓ Two models optimised for short or long links





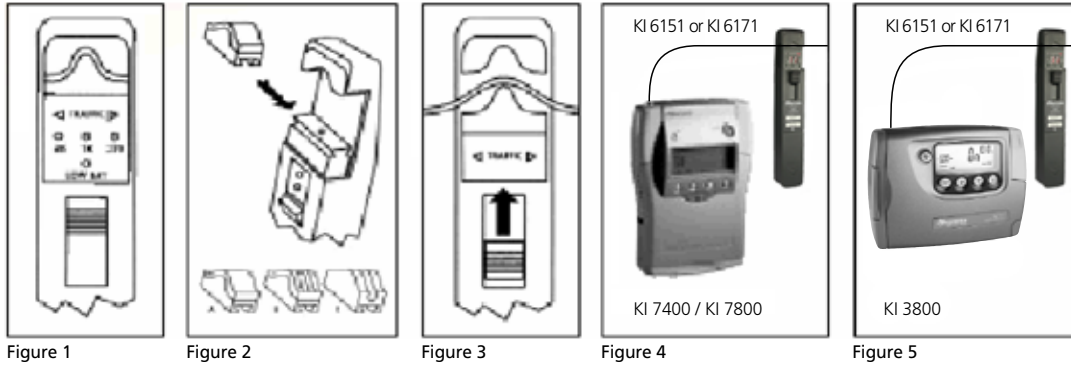
The KI 6151 & KI 6171 Tone and Traffic Identifiers are rugged, easy to use instruments used to identify optical test tones and live traffic in singlemode fiber. The major application is to positively identify fibers to avoid accidentally disconnecting live systems.

The instruments are simple and reliable to use with one hand. They can detect a variety of optical tones, which can be provided by any Kingfisher laser source.

Various field interchangeable chucks are supplied, and enable rapid re-configuration for a variety of fiber cord diameters.

The approximate core power in the fiber is measured and displayed on a two-digit display.

The KI 6171 is suitable for short to medium distance applications, and the KI 6151 is a high performance model with an extra 20 dB of range and typically less insertion loss, suitable for long distance applications.



### SPECIFICATIONS

	KI 6151	KI 6171
Detected tones	270 Hz, 1 kHz, 2 kHz	
Audible tones	Audible tones depends on traffic / test tone	
Detected $\lambda$	850 to 1700 nm	900 to 1650 nm
Fiber types	SMF: ribbon, 250 $\mu$ m, 900 $\mu$ m, 2 mm, 3 mm	
Fiber Slack	20 mm (0.75")	12 mm (0.5")
Power Reading <sup>1</sup>	+24 to -58 dBm	0 to -50 dBm
Detection Sensitivity <sup>1</sup>	-43 dBm Typ @ 1310nm -51 dBm Typ @ 1550 nm	-23 dBm Typ @ 1310 nm -32 dBm Typ @ 1550 nm
Insertion loss, typical 250 $\mu$ m	$\leq 0.5$ mm dB @ 1310nm $\leq 3.0$ dB @ 1550 nm	$\leq 0.4$ dB @ 1310 nm $\leq 2.5$ dB @ 1550 nm
Insertion loss, typical 3 mm	$\leq 0.02$ dB @ 1310nm $\leq 0.3$ dB @ 1550 nm	$\leq 0.05$ dB @ 1310 nm $\leq 2.5$ dB @ 1550 nm
Warranty	12 month	18 month
Size/weight	213 gm (7.5 oz) 189 x 31 x 25 mm (7.5 x 1.25 x 1.0")	215 gm (7.6 oz) 209 x 33 x 31 mm (8.5 x 1.3 x 1.3")
Power	9 V PP3 Alkaline battery, Low battery detector, Auto turn-off, 10,000 readings typ	
Display	Traffic direction, Tone frequency, Low battery, Self test, Relative core power	
Operating / Storage Temperature	-20 to +50 °C/ -40 to +60 °C	-10 to +60 °C/ -25 to +70 °C
Humidity	0 to 95% non-condensing	

Note:  
1. Mean detectable signal power for 250  $\mu$ m singlemode fiber at 1310 nm. This will also depend on the fiber type, fiber coating pigmentation and patch cord construction.

### ORDERING INFORMATION

Instrument	P/N
Tone and Traffic Identifier	KI 6151
Tone and Traffic Identifier	KI 6171

A test tone source is required to use the tone detection feature on these instruments. Please refer to any Kingfisher Light Source.

### STANDARD ACCESSORIES

	Quantity	
	KI 6151	KI 6171
SMF, 2 mm chuck	1 (OPT615)	1 (OPT620)
SMF, 3 mm chuck	1 (OPT616)	1 (OPT621)
SMF, 900 $\mu$ m chuck	1 (OPT617)	1 (OPT622)
SMF, ribbon & 250 $\mu$ m chuck	1 (OPT618)	1 (OPT623)
Pouch	1	
Batteries	1	
Manual	1	
Wrist strap	1	

### OPTIONAL ACCESSORIES:

Adaptor head chuck for 1.6 mm patch cords (OPT614 for KI 6151). Also available from kingfisher: Light Source, Power Meter, Loss test Set, Attenuator, Talk Set, Cold Clamp, Visible Pen.

### AUTHORIZED DEALER



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