User Guide

KI 734x Series Two way Loss & ORL Tester



Fiber Optic Test Equipment Manufacturer

www.kingfisher.com.au

Two-way Loss Tester



The fastest and easiest two-way loss tester

- > Real time display of bi-directional average multi- λ link loss on both instruments
- 3 year warranty & calibration cycle
- No warm up required
- > 360 hours battery life & interchangeable connectors
- > 1200 storage space for dual λ test results

Fast & Easy For Bi-directional Testing

Step 1: Set references Step 2: Press the "Auto test" button

Real time bi-directional average multi- λ link loss display on both instruments

Step 1 - Set Reference At Both Ends



Set Reference Key Press Sequence



Source	off		1310 nm
	- 5	52.7	3 _{dBm}
Source	Return Loss	Power Meter	Auto test

Step 2 - Measure Insertion And Return Loss



Measure Insertion And Return Loss - Continue





Pushing "STORE" to store average Loss, A-to-B Loss, B-to-A Loss, ORL at end A, ORL at end B of multi- λ

Testing is completed for the link.

Communication During Testing



Increases the productivity in high fiber-count systems.

Set Ref In Autotest



Source on		1310 nm
	- 34.0	A ∢ ► B dB
Menu	Set Ref	Auto test Hold

Displays average link loss for multi- λ .

Hold "Set Ref" for 3 seconds will set references on both units for multi- λ .

View Ref Value In Autotest



Pass/Fail Assessment

In Two-way testing mode, press 'Level' to enter Pass/Fail display mode. To exit press 'Level' again, or press 'Select'.



Insertion Loss Pass/Fail Threshold Set Up

Multi- λ of Insertion Loss Pass/Fail criteria can be set.



Return Loss Pass/Fail Threshold Set Up

Multi- λ of Return Loss Pass/Fail criteria can be set.



The Contents of User Memory

- > Average loss for multi- λ
- > Reference of both units for multi- λ
- \succ ORL for multi- λ
- > Nominal output power for multi- λ
- Location info by flashing symbol of either A or B

KITS[™] testing software

Microsoft Exce	I - KIT5221 sheet	for Xing.xls
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Kingfisher • 📹 Connect Setup • Save • Load • Merge • Clear • Print • 🧶 •

File Edit View Insert Format Iools Data Window Help

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Job No	0					Project		Millman Hill Date:						17-De	c-2003					
Subjec	t		Stage:					Report/File No:						R-1712	203-001					
Section	ı		YY	-XX		Duct:		Comment												
Circuit	ID:	G	THUR-	THUS-0	45	Cable:		FNPEHJ/HS1		Drawing No:			CD-40	0069/5						
Route:						Sheath:		M	M 2550	142	Other:									
		Т	erminal I	D		Shea	ath ID		Sour	ce S/N	Mete	er S/N		Operate	or Name					
	A"	Tł	ursday.	ls	F-	THUR-T	HUT-300)1			91	57		Bri	ian					
	В"		R/T		F-	THUR-T	HUT-300)1	1			4		Xi	ng					
	_																			
	1 st Wa	avelength nm						13	10	2nd W	avelen	gth, nm					15	50		T
Fibre	Pass / F	Fail Link Loss. dB						11	11.63 Pass / Fail Link Loss dB										Direct	Min.
	Pass / F	/ Fail ORL Loss, dB						-30.00 Pass / Fail ORL Loss. dB										-30.00		margin
	Ref lev	vel dBm 2nd value dBm			Link loss dB			ORL loss dB		Ref lev	Ref level dBm 2nd val		ue dBm Link loss dB		В	ORL loss dB			(db)	
	A	В	A	В	A to B	B to A	Average	Α	В	A	В	A	В	A to B	B to A	Average	Α	В		
1	-6.39	-7.69	-16.42	-15.28	8.89	8.73	8.81	-33.97	-36.93	-6.55	-7.21	-12.95	-12.62	6.07	5.74	5.90	-35.32	-37.17	Pass	1.38
2	-6.39	-7.69	-16.48	-15.35	8.96	8.79	8.87	-34.07	-37.23	-6.55	-7.21	-13.00	-12.65	6.10	5.79	5.94	-35.39	-37.77	Pass	1.34
3	-6.39	-7.69	-16.56	-15.44	9.05	8.87	8.96	-34.22	-36.85	-6.55	-7.21	-13.07	-12.72	6.17	5.86	6.01	-35.59	-37.76	Pass	1.27
4	-6.39	-7.69	-16.38	-15.26	8.87	8.69	8.78	-34.19	-36.88	-6.55	-7.21	-12.94	-12.59	6.04	5.73	5.88	-35.58	-37.32	Pass	1.40
5	-6.39	-7.69	-16.38	-15.28	8.89	8.69	8.79	-34.31	-36.80	-6.55	-7.21	-12.93	-12.62	6.07	5.72	5.89	-35.56	-37.19	Pass	1.39
6	-6.39	-7.69	-16.48	-15.36	8.97	8.79	8.88	-34.41	-36.50	-6.55	-7.21	-14.45	-14.78	8.23	7.24	7.71	-36.72	-37.19	Fail	
7	-6.39	-7.69	-16.43	-15.33	8.94	8.74	8.84	-34.30	-36.80	-6.55	-7.21	-12.98	-12.63	6.08	5.77	5.92	-35.64	-37.19	Pass	1.36
8					0.00	0.00	0.00							0.00	0.00	0.00				<u> </u>
9					0.00	0.00	E .	One	e click	for 27	Loss/	ORL	_	0.00	0.00	0.00	-			<u> </u>
10					0.00	0.00	<u> </u>	ł	testing	data	in 8 se	C	_	0.00	0.00	0.00				
11		-	2		0.00	0.00	0.0							0.00	0.00	0.00			L	-
12				(10)	0.00	0.00	0.00			D. e. A			10)	0.00	0.00	0.00	-		<u> </u>	
	Minimu	ium Average Loss (dB) 0.00								Minimum Average Loss (dB) 0.00										
	Maxim	Maximum Average Loss (dB) 8.96								Maximu	m Avera	ge Loss ((dB)			7.71				

K ► ► Loss Testing / Data Logging / Label Printing / Meter reading /

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