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Protek A434L 4GHz Cable & Antenna Analyzer

Protek is ready to provide you with good solution and good service that you need anytime and anywhere.

- The Economical Solution
- Ideal for Field Testing
- Lightweight and Easy-to-use





Address

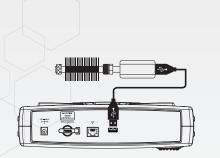
Instruments 4 Engineers Ltd Business & Innovation Centre Broadstone Mill, Broadstone Road Stockport SK5 7DL, United Kingdom

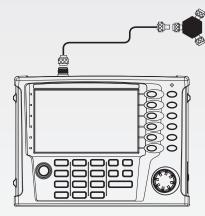
Contact

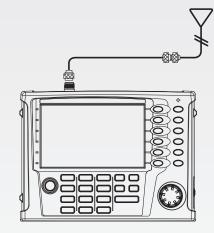
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Protek A434L 4GHz Cable & Antenna Analyzer







General Information

1 VSWR **2** Distance to Falut **3** Cable Loss **4** Power Meter

	2000/01/06 02:1	23:08		[VSWR -	VSWR]		Frequency	Start Free	2013/10/23 17:21:55	[System]	System 🕨	Upgrade
		VSWR	DTF	Cable Loss	Power Mele	System	CAL	Start Hreq 5.00 MHz	🚥 🎽 vswa 🛛 DTF	Cable Loss Power Meter System	CAL	000104
	Trace Point:	1.00 58.60 52.30						Stop Freq 4000.00 MHz	Software Version: 0.6 Device Version: 0.3	3P Address: 10.10.10.73 Netmask: 255.255.255.0 Gateway: 10.10.10.1		Beep OFF ON
Protek	1005 Point Average: 65.00	45.00 39.40 33.00						Center Freq 2002.50 MHz	02.58 Miz Sleep Time: Off Battery Status: OfF		Sweep Mode Centl Sing	
	3995.00 MHz Band Name: Custom	31.40 20.20						Span Freq 3993.00 MHz	LED : 10 Sec Language: English System Temperature: 56.8 10	Language: English		Indument Setting 35
	T1:Current T2:	7.40						Band List (25)	Hodel: A434L Serial Number: 1234567890			Preset
(i) G5 instruments Ex.136	Marker Toble	5.00 ML Mk		M2 == M2 ==		M3: M6:	4000.0			Copyright 2014 C52nd	Server S Co 116	LED >> 10 Sec

2000/01/01 22	000/01/01 22:02:48			[VSWR - VSWR]			
(III) 🛍	VSWR	DTF	Cable Loss	Power Meter	System	GAL	Load Trace (*Jra)
Cal On 3900-0.01 71-4630 980-30 - 180-30	5.87 5.38					\square	Load Screen (*ang)
Trace Point: 2001 Point	4.11	-					(*peg)
Average: 3.48	192						Load State (*.sta)
Span: 200.00 MHz	10			-			
Band Name: Oustom	2.4						Load From Internal USB
	197						
T1:Capture T2:Capture	149						
	1.00 900.00			1000.00 M4z		1103.00	
Marker Tabie	N1: 942.40 M4: 1000.0	911/4.37 3HHz/2.67	H2: 50 H5: 10	0.00MHz/3.62 42.00P94z/2.85	M3 1000.30 Mg	990/3.26	
				Copys		uments Co.116.	

2000/01/01 00:0	16:20	[VSWR - Return Loss] Amplitude 🕨				Mar Parts	
•••	VSWR	DTF	Cable Loss Power Me	ter System	CAL	Max(Top) 0.50	
Cal On 2000 01 00 02:40	.00 600					Hadloton	
Trace Point:	12.00			$ \rightarrow $		60.00	
	:8.00						
Average: 23.15	24.22	/					
5pan: 3995.00 MHz	10.00						
Band Name: Custom	7					Limit Level 20.00	
	40.00					_	
T1:Current	54.20			$\left \right $	+-1	Dual Hode	
	5.00		2002.50 M	e .	4000.00		
Marker Table	MIL ···		M2:	MR			

2000/01/01 00:0		[VSWR - Return Los		Hax(Top)
🚥 🛎 🗉	VSWR	IF Cable Loss Power N	teter System CAL	0.00
Cal On 2000/01/01/2-02 1:02 - 400:00	**			Hadloton
Trace Point: 2001 Point	12:00			60.00
Average: 23.15	24.00			
50 ani: 1995.00 Miliz	200			
land Name: . Custom	9 III			Limit Level 20.00
	40.00	++++		1
T1:Current	54.82			Dual Hode
T4 60		2002.50	1912 4000.00	
Natkor Table	ML ···	H2	ME	

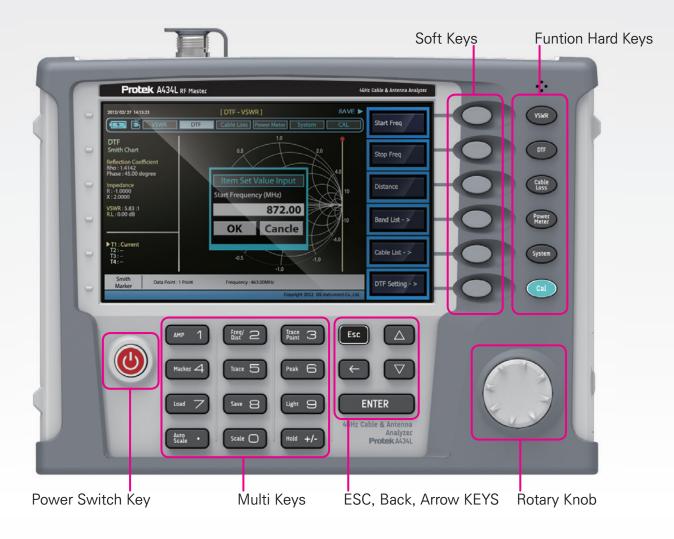


2013/10/23 14:02:35	(Power Meter) TF Cable Loss Power Meter System	Power Hister IP	Irrindue, Preset
	t Offset: 1.00 dB Power Sensor Pauency: 1800.00 MHz	TEMP: 28.0 °C	Frequency 1800.00 Hits
AVG			Display Setup >>
	dBm		Hode >> (AVG)
-40.00 dilm	13.00 db	ļ	
		Interests Co. 115	

2013/10/23 17:07:45	(Power Meter) DTF Cidle Loss Power Meter 59	Power Heter 🕨	Inital rePreset
Madel: PowerSensor S/N : 20131025 Type : Terminating	Ext Offset: 1.60 d8 Power Se Prequency: 1800.00 MHZ	ntem CAL	Frequency 1803.00 MHz
AVG	-29 . 58dB	୍ଦ୍ର Sm	Display Setup>>> Mode >> (AvG)
-40.00 d		200 dillen	
	Connect 2	to a collective meets Co. Ltd.	

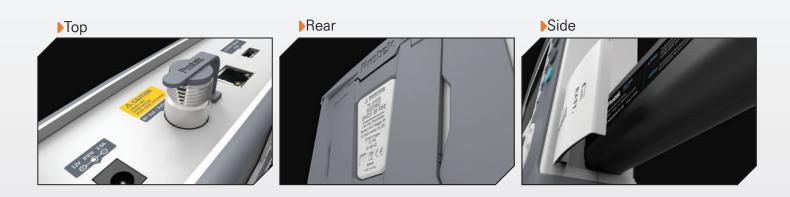
2000/01/03 01:14:47	[VSWR - Return Loss] 17 CubicLoss [PowerMener System	Sine > Ch	2000(01/01 01:45:25	[VSWR - Return Loss] 27F Cable Loss [Power Miner] System	n CAL Select
Trace	Save	Ges	Trace	Load Range	Fie Manger 22
Save to : Internal		Bactopoce Back Space	20000565.bra		UNE JESIS2
3 3 3 4 9 8 8	5 6 7 6 9 6 8 7 9 0 1 0				
Cap A S 0	7 G H J K C				
	CK.	Carea	Lead from : Britemal Total : 1	72 ox	Cancel Roturn

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Key Features

A large number of cell site problems are caused by the antenna system, cable, or connectors. It is important to have the right instrument available when either servicing or certifying cell sites for operation.

The Protek A434L RF master is a lightweight portable diagnostic tool for an accurate detection of operational problems. The Protek A434L has all the measurement functions necessary to accurately verify the antenna system from VSWR to power measurements. In addition, the Protek A434L makes distance-to-fault measurements to accurately pinpoint the fault's location.

The Protek A434L user interface is with a front keypad and a TFT color, 7-inch display providing ease of use and control. The application specific software allows the user to easily compare and analyze measurements and generate comprehensive reports. The Protek A434L is equipped with a rechargeable and infield installable lithium-ion battery providing over four hours of operation.





Key Features

- Rechargeable and infield replaceable lithium-ion battery
- Built-in world-wide signal standards and frequency channels
- 7 Inch TFT color display viewable in daylight
- Dual display to view multiple measurements simultaneously to reduce test time
- Easy front keypad operation
- Superior immunity to RF interference
- Up to 2001 data points to locate long range problems
- Built-in cable menus containing >90 cables' characteristics
- User friendly menu structure
- Saves up to Memory (user setups, traces, screens)
- Alphanumeric labeling of saved data
- Automatic Time/Date stamp of saved data
- USB Port (USB 2.0)
- Remote firmware upgrade capability
- Fast one-touch selection of menu item or positioning marker
- Smart Battery management can be check Battery capability
- Rechargeable and field replaceable Lithium Ion battery with more than 4 hours operation time
- Backlight keypad for easier use in dark environments

Key Measurements

- High resolution VSWR Measurements
- Distance to Fault (DTF) Measurements
- Cable Loss Measurements
- RMS Power Measurements (optional)



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Specifications					
ltem	Sub Item		Specification		
	Max Input Power		+25dBm Damage level		
	Frequency Range		5MHz to 4GHz		
	Frequency Accuracy	,	< ±3ppm		
	Frequency Resolution	า	10kHz		
	Impedance		50Ω		
General	Scan Speed		< 1msec /data point		
	Display		Single & Dual mode		
	Test port		N Female		
	Test curve storage				
	Screen storage		Internal : Minimum 512MB External : Limited by size of USB (32G)		
	Setup storage				
	Number of data points VSWR Return loss Range		126, 251, 501, 1001, 2001		
VSWR			0 to -60dB		
	VSWR Range		1 to 65		
Cable Loss	Cable loss range		0 to -30dB, 0.01dB Resolution		
Interference Immunity	On-Frequency		+10dBm		
	On-Channel		+20dBm		
	Return Loss Display Ra	nge	0 to 60dB		
DTF	Distance Range		0 to 1250m (4125ft)		
	VSWR Display Range	9	0 to 65		
	Dimension		260X193X67mm		
	Weight		<2.45Kg include battery		
Miscellaneous	A434L Voltage and Curr	rent	12Vd.c., 3.5A		
Miscellarieous	Adaptor	AC Input	100 to 250Vd.c., 1.5A		
	Adaptor	DC Output	12Vd.c., 5A		
	Battery		Li-Ion (4hr operating time after full charging), 12Vd.c., 7600mAh		
	Operating Temperatur	re	0°C ~ +50°C		
Environmental	Storage Temperature)	−40°C ~ +80°C (−40°F ~ +176°F)		
LIVIONNEItai	Humidity		95%R.H. NO Condensation		
	Degree of protection	1	IPX0		
	Frequency Range		20MHz to 3.8GHz		
	Sensor Type		Average		
Power Meter(Option)	Peak Power Sensor		-40dBm to +10dBm		
	Accuracy		±7%		
	Test Port		Precision N Female		