

The FOX



RUGGED SIGNAL STRENGTH METER

This compact 5 pound hand-held, battery-powered meter is packed with exceptional capabilities. Select from models covering a wide range of frequencies.

FEATURES:

- High measurement rate, more than twice that of Dr. Lee's recommended 40 λ .
- Internal eight channel differential Global Positioning System (GPS)
- Fast charge circuit (<2 hours)
- PCMCIA memory system for post processing data
- Capability to input X/Y coordinates from a floor plan
- Odometer input for correlation to distance during drive-around studies
- Weighs 5 pounds
- Optional dead reckoning available

The Fox is designed to measure RF propagation coverage and detect "RF Shadows". It is internally powered (or may be externally) and logs text measurements, or displays graphically a wide assortment of built-in real-time macro measurements. These include "follow mode", C/I, RSSI, adjacent channel, "best server", peak hold, A-band or B-band scan and BER analysis.

POST-PROCESSING

Data from The Fox Meter measurements are saved to a 2 Mbyte PCMCIA flash card and to an RS-232 serial port for direct storage to a PC (up to 38K baud, selectable).



Serial output may be binary (compressed) or in an ASCII comma delimited format.

The Fox data can be imported directly into third party software including:

- dB Planner from MapInfo
- TEC's Wizard
- Microsoft Excel
- MSI Planet

Or customize for any other post-processing application via Chameleon™, a Windows™ transfer program (included).

Available Frequencies:

- PCS ■ Cellular ■ LMR ■ IVDS ■ SMR
- AMPS ■ ETACS ■ PACS ■ Paging



The Fox is housed in a durable case with carry handle and removable cover. This rugged case provides protection in any weather.

Available from stock.

The Fox is just one of many exceptional design solutions from Berkeley Varitronics. Call us today for more information:

(732) 548-3737 / Fax: (732) 548-3404

Internet: www.bvsystems.com

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BERKELEY VARITRONICS SYSTEMS

The FOX SIGNAL STRENGTH METER

MODEL 18000 SPECIFICATIONS

DISPLAY	240 X 64 pixel Graphic Backlighted Electro-luminescence LCD (Super Twist)	
TUNING RANGE	20-40 MHz tuning range of band	
BANDS SUPPORTED	ISM: 2.400-2.485 GHz 900-930 MHz PCS: Uplink (Blocks A through F) 1850-1910 MHz Downlink (Blocks A through F) 1930-1995 MHz LMR: 805-825 MHz IDEN/SMR: 850-870 MHz Cellular: 824-848 MHz 868-896 MHz ETACS: 872-905 MHz 915-950 MHz Paging: 145-165 MHz 450-465 MHz 928-941 MHz IVDS: 218-219 MHz WCS: 2.30-2.36 GHz	
SENSITIVITY	-118 to -30 dB \pm 1 dB (@ 10 kHz IF Bandwidth)	
Adj. Chan. Rejection:	> 50 dB @ 30 kHz	
RSSI MEASUREMENTS	msec/chan	chan/sec
RSSI Measurement:	15	50
Fast Scan (Scan RX Band):	15	66
GENERAL SPECIFICATIONS		
Dual Conversion:	83 MHz first IF, 455 kHz second IF	
IF Bandwidth:	4 kHz, 10 kHz, 25 kHz or 30 kHz available (@ 5dB)	
Stability:	\pm 2.5 PPM from freezing to 120°F	
Phase Noise:	> 80 DBC @ 1 kHz	
Antenna:	TNC 50 ohms	
Controls:	20 button keypad	
Warm Up Time:	< 3 minutes	
Power:	(1) Internal 12 Volt Ni-Cad batteries 1.8 A.H. Internal battery run time > 8 hours (2) External car cigarette lighter 12-16 VDC @ 200 mA (3) External DC transformer 16V @ 500 mA, 120 or 240 VAC auto switching	
Serial Port:	RS232, 9600 baud, 8 bit. no parity, 1 stop bit	
Weight:	5 lbs.	
Dimensions:	3.5" H x 6" W x 7.75" L	
Approvals:	UL, CSA	
INCLUDES		
Antenna:	Right angle TNC (50 ohms)	
Case:	Water resistant, high impact ABS plastic	
Car Lighter Adapter:	12-16 VDC @ 200 mA to 400 mA	
Charger:	Battery charger with fast charge circuit (< 2 hours full charge)	
PC Software:	3-1/2" diskette, Windows '95 or '98 compatible	
GPS:	Internal 8 Channel Differential GPS Navigation with active antenna	
PCMCIA:	Mass (non-volatile) storage flash cards	
OPTIONS		
IF Bandwidth:	4 KHz, 10 KHz, 25 KHz, 30 KHz	
BER Demodulation:	Bit, byte, packet and burst error counts (certain models only)	