

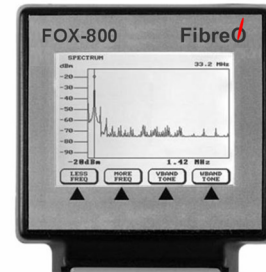
FOX-800

Copper Loop Qualification and xDSL Test Set

Is so affordable, the best feature/value proposition on the market today for comprehensive copper loop qualification, xDSL service verification and more
Combines standard 30MHz spectrum analysis and ADSL/ADSL2+/VDSL2 services verification
Is ideal tool for the field technician pre-qualifying local loop, installing, maintaining and troubleshooting for ADSL/ADSL2+/VDSL2 services

Key Features:

- Consolidation of physical layer qualification, xDSL and IP Layer testing
- Voice and broadband spectrum analysis.
- Support bandwidth up to 30MHz
- Digital Multi-Meter
- Super-Stress to accurately identify unbalance on short loop
- Power Influence to identify “dirty” power sources
- Caller ID Test
- Dual Trace TDR
- Resistance Fault Locator (RFL)
- 7 User Selectable Auto Tests and 200 Pair pre-post Test Storage with Incremental Pair Test Program
- USB port for downloading updates and uploading test results
- ADSL2+ emulation (optional)
- VDSL2 emulation (backward compatible with ADSL/ADSL2+) (Optional)



Wideband Spectrum Analysis



Digital Multi-Meter



DSL Bit and S/N Ratio Map



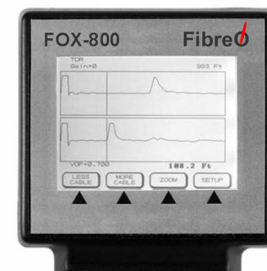
SuperStress Measurement



Impulse Noise Measurement



RFL Measurement



Dual Trace TDR Measurement

Specifications

FOX-800M (copper loop qualification)

Items	Range / (Accuracy, whichever is greater)
AC Voltage	0 ~ 250V (±2%, ±1V)
DC Voltage	0 ~ ±300V (±2%, ±1V)
Loop Current	0 ~ ±100mA (±2%, ±1mA)
Resistance	0 ~ 1MΩ (±2%, ±1V)
Leakage	1 ~ 100MΩ (±3%), 150V open circuit output
Open Meter	0 ~ 900m (±2%, ±1.6m); 900m ~ 15.2km (±3%)
Longitudinal Balance	-60dBm ~ -10dBm (±2dB)
Super Stress™	-100dBm ~ -60dBm (±2dB)
Load Coil Detection	0 coil to 4 coils (±1 coil)
Power Influence	-50dBmC ~ +10dBmC (±2dB)
Noise (Voice Band)	-90dBmC ~ -15dBmC (±2dB)
Loss (Voice Band)	-40dBm ~ +10dBm (±1dB)
Auto Test	7 User-selectable AutoTest scripts, 200 pair storage, Retest capability, Incremental Pair Testing program
ID Tone	Frequency: 577.5Hz (±1%) Amplitude: 0dBm @600Ω (±1dB)
Caller ID	Yes
Wideband Tone Send	Frequency: 20KHz ~ 9MHz (±1%) Amplitude: 0dBm @135Ω (±1dB)
Wideband Tone Receive	Frequency: 20KHz ~ 33MHz Amplitude: -75dBm ~ +2dBm (±2dB)
Wideband Loss	Frequency: 20KHz ~ 33MHz Amplitude: -75bBm ~ +2dBm (±2dB)
RFL	Distance to Fault: 0 ~ 3000m (±0.5%, ±1m) Maximum measurable fault resistance: 100MΩ Maximum locatable fault resistance: 2MΩ
TDR	Dual Trace, 12 trace memory storage, Auto pulse width selection, Pair comparison mode, Split/crosstalk mode, Intermittent fault location, Closest range 0 ~ 7.6m, Longest range 0 ~ 14.9km (@VOP = 0.7), Zoom mode
Wideband Spectrum Analyzer	Frequency: 20KHz ~ 33MHz Amplitude: -90dBm ~ +10dBm (±2dB) -130dBm/Hz ~ -30dBm/Hz (±2dB)
Impulse Noise	Amplitude: -45dBm ~ +10dBm (±2dB) Filters: F, G, J, None (30 MHz)
Voiceband Spectrum Analyzer	Frequency: 50Hz ~ 4,100Hz Amplitude: -64dBm ~ 0dBm (±2dB) -76dBm/Hz ~ -12dBm/Hz (±2dB)

FOX-800A (ADSL2+) (In Addition to Features of FOX-800M)

Standards Compliance	ADSL G.dmt G.992.1/2 Annex A, B ADSL2 G.992.3/4 Annex A, L, M ADSL2+ G.992.5 Annex A, L, M
Link Statistics	<ul style="list-style-type: none"> • Modem Status • Connection Type (ADSL, ADSL2, ADSL2+) • Actual Data Rate Upstream and Downstream • Attainable Data Rate Upstream and Downstream • % Capacity Upstream and Downstream • S/N Ratio Upstream and Downstream • Line Attenuation Upstream and Downstream • Signal Attenuation Upstream and Downstream • Output Power Upstream and Downstream
Link Graphs	S/N Ratio in each bin Bits in each bin
Internet working Protocols	Bridge PPPoE PPPoA DHCP
Ping Tests	IP address assigned Packet echo statistics <ul style="list-style-type: none"> • Transmitted • Received • % successfully echoed • Round trip time (max, min, and average)

FOX-800V (VDSL2)

(In Addition to Features of FOX-800M and FOX-800A)

Standards Compliance	VDSL2 G.993.2 <ul style="list-style-type: none"> • Bandplans: 8, 12, 17, 30MHz • Profiles: 8a, 8b, 8c, 8d, 12a, 12b, 17a, 30a • Plan 997, Plan 998 Capable of emulating a CO/DSLAM
Link Statistics	Connection Type (VDSL2, RT, CO)

Note: Specifications subject to change without notice

General Specifications

Display	High resolution, 1/4 VGA graphics with LED backlit
Batteries	Rechargeable nickel-metal hydride
Battery Life	Approximately 30 hours typical usage
Weight	< 1 kg
Dimensions (mm)	254 (H) x 115 (W) x 6.5(D)
Environmental	Weather and drop resistant in accordance with MIL-STD-810F

Related Products

- FOX-100 (wire tracker)
- FOX-150 series (Telephone line and service test sets)
- FOX-250 (ADSL2+ and DMM tester)
- FOX-450B (Advanced ADSL2+ and DMM tester)
- FOX-450MS (ADSL2+ and SD IPTV package)
- FOX450MH (ADSL2+ and HD IPTV package)
- FOX-450V (Advanced VDSL2 and DMM tester)
- FOX-600 (Cable qualifier – TDR)



Download updates and upload test results quickly and easily via the integrated USB port

Ordering Information

FOX-800-X

X – Model Type

- M – Main chassis supporting copper loop qualification
- A – Copper Qualification + ADSL2+ emulation
- V – Copper Qualification + VDSL2 emulation and backward compatible with ADSL/ADSL2+