FTTx PON AND LAN/WAN INSTALLATION AND TROUBLESHOOTING UNIT



A powerful handheld OTDR unit designed for splitter characterization in FTTx networks; can be configured as a quad unit with both singlemode and multimode wavelengths.

KEY FEATURES

Event dead zone: 0.8 m

Wavelengths: 850/1300/1310/1490/1550/1625 nm

Dynamic range: up to 37 dB

Battery autonomy: 8 hours

APPLICATIONS

FTTx/MDU PON network testing

LAN/WAN testing

Private network testing

COMPLEMENTARY PRODUCTS AND OPTIONS



Fiber Inspector Probe FIP-400



Data Post-Processing Software **FastReporter**



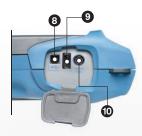
Soft Pulse Suppressor Bag











- 1 Infrared Printer Interface
- 2 OTDR Port | Multimode testing.
- 3 Power Meter Detector Port | Compatible with almost every connector on the market. Manually and efficiently perform power and loss testing. Accurately measure power up to 26 dBm.
- 4 OTDR Port | Singlemode testing.
- **5** VFL Port | Built-in 650 nm visual fault location on a universal 2.5 mm connector.
- 6 AC Adapter
- 7 RJ-45 | TCP/IP testing.
- 8 USB B | Data transfer using ActiveSync or remote control.
- 9 USB A | Data transfer using memory stick.
- 10 Fiber Inspection Probe Port

TECHNICAL SPECIFICATIONS ^a		
Wavelengths (nm)	850/1300/1310/1490/1550/1625	
Dynamic range ^b (dB)	24/25/37/33/35/37	
Pulse width (ns)	Multimode: 5, 10, 30, 100, 275, 1000	
	Singlemode: 5, 10, 30, 100, 275, 1000, 2500, 10 000	
Event dead zone c (m)	0.8	
Attenuation dead zone $^{\rm c}$ (m)	3.5/4.5/4/4.5/4.5	
Linearity (dB/dB)	±0.03	
Loss threshold (dB)	0.01	
Loss resolution (dB)	0.01	
Sampling resolution (m)	Multimode: 0.08 to 2.5; singlemode: 0.08 to 5.0	
Sampling points	Up to 64 000	
Distance uncertainty d (m)	\pm (0.75 + 0.0025 % x distance + sampling resolution)	
Distance range (km)	Multimode: 0.1 to 40; singlemode: 0.65 to 260	
Typical real-time refresh (Hz)	4	
Memory capacity	500 traces	
Measurement time	User-defined	
Stable source output power ^e (dBm)	Multimode: -1.5; singlemode: -7.5	
Visual fault locator (optional)	Laser, 650 nm ± 10 nm CW typical P _{out} of 1.4 mW open beam	

OPTIONAL POWER METER f	
Calibrated wavelengths (nm)	850, 1270, 1290, 1310, 1330, 1350, 1370, 1390, 1410, 1430, 1450, 1470, 1490, 1510, 1530, 1550, 1570, 1590, 1610, 1625
Power range (dBm)	26 to -64 (GeX 2 mm)
Uncertainty	$\pm 5~\% \pm 0.4~\text{nW}$ (up to 5 dBm)
Display resolution (dB)	0.01 (-54 dBm to P _{max}) 0.1 (-54 dBm to -64 dBm) 1 (-64 dBm to min)
Automatic offset nulling range ⁹	Maximum power to −38 dBm
Tone detection (Hz)	270/1000/2000

GENERAL SPEC	CIFICATIONS	
Size (H x W x D)		250 mm x 125 mm x 75 mm (9 $^{7}/_{8}$ in x 4 $^{15}/_{16}$ in x 3 in)
Weight		1 kg (2.2 lb)
Temperature	operating	–18 °C to 50 °C (14 °F to 122 °F)
	storage	-40 °C to 70 °C (-40 °F to 158 °F)
Relative humidity		0 % to 95 % non-condensing
Power		Li-ion batteries; 8 hours of continuous operation as per Bellcore TR-NWT-001138
Warranty (years)		1

LASER SAFETY

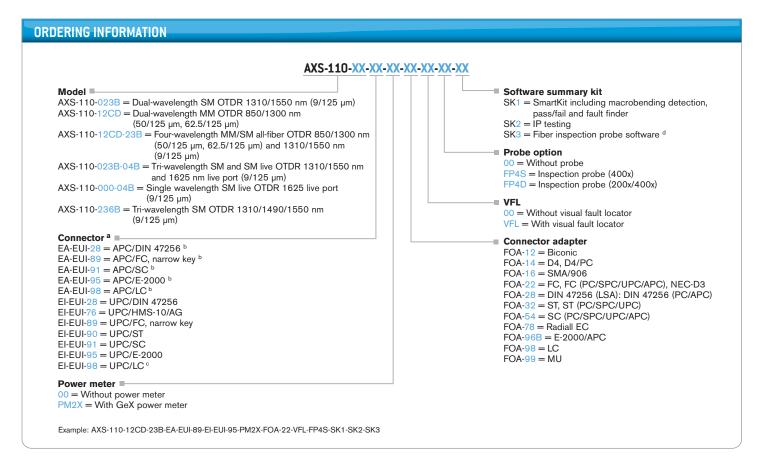


21 CFR 1040.10 AND IEC 60825-1:2007 CLASS 1M WITHOUT VFL OPTION CLASS 3R WITH VFL OPTION

Notes

- a All specifications valid at 23 °C \pm 2 °C (73.4 °F \pm 3.6 °F) with an FC/PC connector, unless otherwise specified.
- Typical dynamic range with longest pulse and three-minute averaging at SNR = 1. Multimode dynamic range is specified for 62.5 μm fiber; a 3 dB reduction is seen when testing 50 μm fiber. AXS-11-12CD-23B is 24/25/32/30.
- c. Typical dead zone for multimode reflectance below -35 dB and singlemode reflectance below -45 dB, using shortest pulse.
- d. Does not include uncertainty due to fiber index.
- e. Typical output power is given at 1300 nm for multimode output and 1550 nm for singlemode output.
- f. At 23 °C \pm 1 °C, 1550 nm and with FC connector. With OTDR in idle mode, battery operated.
- g. For ± 0.05 dB, from 18 °C to 28 °C.





Notes

- a. Refer to the example. First select the singlemode connector, and then the multimode connector or the live port connector.
- b. Singlemode only
- c. Multimode only.
- d. Mandatory with FP4S or FP4D.

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