EXFO MaxTester MAX-710B Specs Provided by www.AAATesters.com MaxTester 710B Last-Mile OTDR

POINT-TO-POINT (P2P) LINKS, LAST-MILE INSTALLATION AND TROUBLESHOOTING



Fully featured, entry-level, dedicated OTDR with tablet-inspired design perfect for frontline singlemode fiber installers.

KEY FEATURES

Handy, lightweight, powerful, tablet-inspired design

7-inch, outdoor-enhanced touchscreen – the biggest in the handheld industry

12-hour autonomy

Dead zones: EDZ 1 m, ADZ 4 m

Dynamic range of 30/28 dB

Rugged design built for outside plant

APPLICATIONS

FTTx last-mile installation and troubleshooting

Short access network testing

FTTA-fiber DAS installations

CATV/HFC network testing

COMPLEMENTARY PRODUCTS AND OPTIONS





Data Post-Processing Software FastReporter 2



COST-OPTIMIZED AND COMPREHENSIVE OTDR

The MAX-710B is the first tablet-inspired OTDR that is handy, lightweight and rugged enough for any outside plant environment. With a 7-inch, outdoor-enhanced touchscreen, the most efficient handheld display in the industry, it delivers an unprecedented user experience. Its intuitive and Windows-like GUI ensures a fast learning curve. Plus, its new and improved OTDR 2.0 environment offers icon-based functions, instant boot-up, automatic macrobend finders as well as improved auto and real-time modes.

The Max-710B is a genuine last-mile OTDR from the world's leading manufacturer. It delivers EXFO's tried and true OTDR quality and accuracy along with the best optical performance for first-time-right results, every time. It is optimized for the point-to-point testing and troubleshooting of FTTx architectures, and is ideal for testing short fibers (e.g., inside a CO environment or at FTTA/DAS network installations).

In addition to its amazing 12-hour battery life that will never let you down, it offers plug-and-play hardware options, like the VFL, power meter and USB tools.

Ultimately, the Max-710B is small enough to fit in your hand and big enough to fit all your needs!

| SOFTWARE UTILITIES | | |
|-----------------------------|--|--|
| Software update | Ensure that your MaxTester is up-to-date with the latest software. | |
| VNC configuration | The Virtual Network Computing utility allows technicians to easily control the unit remotely using a computer or laptop. | |
| Microsoft Internet Explorer | Access the Web directly from your device interface. | |
| Data mover | Transfer all your daily test results quickly and easily. | |
| Centralized documentation | Instant access to user guides and other relevant documents. | |
| Wallpapers | Enhance your work environment with colorful and scenic backgrounds. | |
| PDF Reader | View your reports in PDF format. | |



PACKAGED FOR EFFICIENCY

- 1 Singlemode OTDR port
- 2 Testing LED indicator
- 3 Stylus
- 4 Power meter

- 5 Visual fault locator
- 6 10/100 Mbit/s Ethernet port
- 7 Two USB 2.0 ports
- 8 AC adapter
- Home/switch application and screen capture (hold)
- 10 Power on/off/standby
- Battery LED status









SPECIFICATIONS a

| TECHNICAL SPECIFICATIONS | MaxTester 710B | |
|--|--|--|
| Display | 178 mm (7 in) outdoor-enhanced touchscreen, 800 x 480 TFT | |
| Interfaces | Two USB 2.0 ports RJ-45 LAN 10/100 Mbit/s | |
| Storage | 2 GB internal memory (20 000 OTDR traces, typical) | |
| Batteries | Rechargeable lithium-polymer battery 12 hours of operation as per Telcordia (Bellcore) TR-NWT-001138 | |
| Power supply | Power supply AC/DC adapter, input 100-240 VAC, 50-60 Hz, 9-16 V DCIN 15 Watts minimum | |
| Wavelength (nm) ^b | 1310/1550 | |
| Dynamic range (dB) ° | 30/28 | |
| Event dead zone (m) d | 1 | |
| Attenuation dead zone (m) ^d | 4 | |
| Distance range (km) | 0.1 to 160 km | |
| Pulse width (ns) | 5 ns to 20 us | |
| Linearity (dB/dB) | ±0.05 | |
| Loss threshold (dB) | 0.01 | |
| Loss resolution (dB) | 0.001 | |
| Sampling resolution (m) | 0.04 to 5 | |
| Sampling points | Up to 256 000 | |
| Distance uncertainty (m) ° | $\pm (0.75 + 0.005 \% \text{ x distance} + \text{sampling resolution})$ | |
| Measurement time | User-defined (60 min. maximum) | |
| Reflectance accuracy (dB) | ±2 | |
| Typical real-time refresh (Hz) | 3 | |
| Laser safety | 1M | |

Notes

- a. All specifications valid at 23 °C \pm 2 °C with an FC/APC connector, unless otherwise specified.
- b. Typical.
- c. Typical dynamic range with longest pulse and three-minute averaging at $\ensuremath{\mathsf{SNR}}=1.$
- d. Typical dead zone for reflectance below -55 dB, using a 5 ns pulse. Attenuation dead zone at 1310 nm is 5 m typical with reflectance below -45 dB.
- e. Does not include uncertainty due to fiber index.



GENERAL SPECIFICATIONS Size (H x W x D) 200 mm x 155 mm x 68 mm (7 % in x 6 % in x 2 % in) Weight (with battery) 1.29 kg (2.8 lb) Temperature Operating Storage -10 °C to 50 °C (14 °F to 122 °F) -40 °C to 70 °C (-40 °F to 158 °F) a

SOURCE (optional)

Relative humidity

Output power (dBm) ^b -11.5

Modulation CW, 1 kHz, 2 kHz

BUILT-IN POWER METER SPECIFICATIONS (GeX) (optional)

Calibrated wavelengths (nm) 850, 1300, 1310, 1490, 1550, 1625, 1650

Power range (dBm) $^{\rm d}$ 27 to -50 Uncertainty (%) $^{\rm e}$ $\pm 5~\% \pm 10~{\rm nW}$

Display resolution (dB)

0.01 = max to -40 dBm0.1 = -40 dBm to -50 dBm

0 % to 95 % noncondensing

Automatic offset nulling range ^{d, f} Max power to -34 dBm

Tone detection (Hz) 270/330/1000/2000

VISUAL FAULT LOCATOR (VFL) (OPTIONAL)

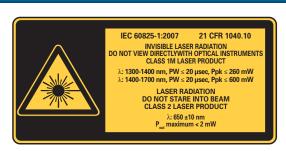
Laser, 650 nm \pm 10 nm

CW/Modulate 1 Hz

Typical P_{out} in 62.5/125 μm : > -1.5 dBm (0.7 mW)

Laser safety: Class 2

LASER SAFETY



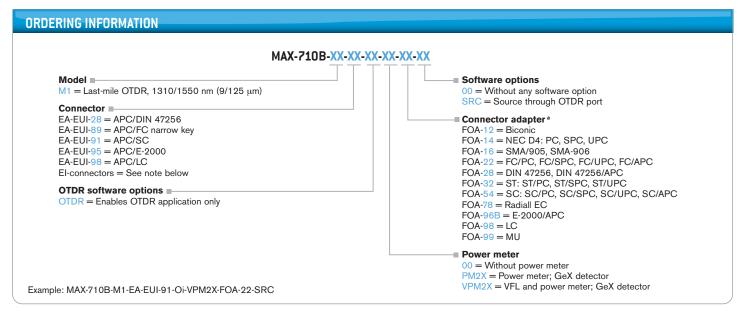
COMPLIES WITH 21 CFR 1040.10 EXCEPT FOR DEVIATIONS PURSUANT TO LASER NOTICE NO.50, DATED JUNE 24, 2007.

| ACCESSORIES | | | | |
|-------------|---------------------------------|---------|--|--|
| GP-10-092 | Semi-rigid carrying case | GP-2016 | 10-foot RJ-45 LAN cable | |
| GP-10-093 | Rigid carrying case | GP-2144 | USB 16G micro-drive | |
| GP-302 | USB mouse | GP-2155 | Carry-on size backpack ^b | |
| GP-1008 | VFL adapter (2.5 mm to 1.25 mm) | GP-2205 | DC vehicle battery-charging adaptor (12 V) | |
| GP-2001 | USB keyboard | | | |

Notes

- a. -20 °C to 60 °C (-4 °F to 140 °F) with the battery pack.
- b. Typical output power is given at 1550 nm.
- c. At 23 °C \pm 1 °C, 1550 nm and FC connector. With modules in idle mode. Battery operated after 20-minute warm-up.
- d. Typical.
- e. At calibration conditions.
- f For ±0.05 dB, from 10 °C to 30 °C.





Note

a. If power meter is selected.

EI CONNECTORS



To maximize the performance of your OTDR, EXFO recommends using APC connectors. These connectors generate lower reflectance, which is a critical parameter that affects performance, particularly in dead zones. APC connectors provide better performance than UPC connectors, thereby improving testing efficiency.

Note: UPC connectors are also available. Simply replace EA-XX by EI-XX in the ordering part number. Additional connectors available are the EI-EUI-76 (UPC/HMS-10/AG) and EI-EUI-90 (UPC/ST).

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