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Data Sheet

July 29, 2026

TEKTRONIX

Tektronix TFP2A FiberMaster Optical Time-Domain Reflectometer with 16 and 17

iberMaster Features Specs Ordering Information Pricing Information RequestaQuote Optical Time Domain Reflectometer TFP2A FiberMaster® CHARACTERISTICS CRT Display - Color 16.5 cm (6.5 in.) diagonal. Plug-in Module Capacity - Up to two plug-ins/four wavelengths. Hardcopy Output - Optional Internal Printer: High speed, high resolution, dot matrix, 150 dots/in. External Interfaces: Keyboard, RS-232C and GPIB. Power Requirements - AC Operation: 90 to 130 VAC, 47 to 440 Hz, 180 to 253 VAC, 47 to 73 Hz. DC Operation (optional): 10 to 16 VDC. Measurements - Event loss, event distance, twopoint distance, two-point loss, fiber attenuation, event return loss (reflectance) link return loss (ORL). Mass Storage Internal Floppy Disk Drive - Size: 8.9 cm (3.5 in.), 1.44 Mbyte, 720 Kbyte MS-DOS Compatible.

 Tektronix TFP2A FiberMaster Optical Time-Domain Reflectometer with 16 and 17

MODEL

Tektronix TFP2A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

TFP2A

LISTING

<https://aumictechlabs.com/products/tfp2a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Tektronix TFP2A FiberMaster is a dual-module Optical Time-Domain Reflectometer engineered for field detection, measurement, and analysis of fiber optic cable performance. It pinpoints faults, determines fiber length, and quantifies signal attenuation across single-mode and multimode networksTelco, CATV, and LAN environments - without module swapping. A high-speed 32-bit processor delivers accurate waveforms with minimal averaging time, differentiating it

from legacy OTDR platforms. Technical Specifications Display 16.5 cm (6.5 in.) diagonal CRT with Liquid Crystal Color Shutter 640 × 480 pixel resolution Dual independent selectable cursors Optical Performance Distance range: 1 m to 320 km Vertical display range (one-way): 1.0 dB to 100 dB Loss readout resolution: 0.001 dB to 0.01 dB Distance measurement accuracy: ±0.001% plus minimum cursor resolution Distance Measurement Cursor Resolution 850 nm MM: 5 cm (normal), 1 cm (high density) 1300 nm MM, 1310 nm SM, 1550 nm SM: 20 cm (normal), 10 cm (high density) Index of refraction adjustable: 1.4000 to 1.6000 Module Configuration Accepts 2 dual-wavelength plug-in modules simultaneously Total wavelength capacity: 4 wavelengths per configuration Key Features Multimode options: 850 nm, 1300 nm, or dual 850/1300 nm modules Single-mode options: 1310 nm, 1550 nm, dual 1310/1550 nm, or long-range 1310/1550 nm modules 1 MB non-volatile RAM for trace storage 3.5 in. internal floppy drive (1.44 MB or 720 KB formats) Optional high-speed thermal dot-matrix printer (150 dpi output) Compatibility & Integration GPIB interface with HPGL plotter and HP ThinkJet compatibility RS-232C interface supporting HPGL, HP ThinkJet, Epson, and PostScript output AT-compatible keyboard interface (8-pin modular connector) FMTAP™ Trace Analysis Software for offline documentation and analysis AC operation: 90–130 V AC (47–440 Hz) or 180–253 V AC (47–73 Hz) DC power input option available

TFP2A Characteristics / Specifications

PARAMETER	VALUE
External Interfaces	Keyboard, RS-232C and GPIB. Power Requirements -
AC Operation	90 to 130 VAC, 47 to 440 Hz, 180 to 253 VAC, 47 to 73 Hz. DC
Operation (optional)	10 to 16 VDC. Measurements - Event loss, event distance, twopoint distance, two-point loss, fiber attenuation, event return loss (reflectance) link return loss (ORL). Mass Storage
Loss Readout Resolution	0.001 dB.
Horizontal System	1 m to 320 km. Distance Measurements
Units	cm, m, km, kfeet, feet.
Accuracy	$\pm 0.001\%$ + minimum cursor resolution, $\pm$ uncertainty in IR.
IR Range	1.4000 to 1.6000. Environmental May be reduced with disk drive and printer operating.
Nonoperating	5% to 90%. Other Peripheral Capabilities FMTAP - Off-line trace analysis and documentation software for Windows. Remote Control - via RS-232C or GPIB interface. Data Transfer - via RS-232C or GPIB interface. Physical Characteristics
Humidity	Operating: 5% to 90%, noncondensing.
Return loss	(reflectance) link return loss (ORL).

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Humidity	Operating: 5% to 90%, noncondensing.
Nonoperating	5% to 90%. Other Peripheral Capabilities FMTAP - Off-line trace analysis and documentation software for Windows. Remote Control - via RS-232C or GPIB interface. Data Transfer - via RS-232C or GPIB interface. Physical Characteristics

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet

([https://www.testmart.com/webdata/mfr_pdfs/TEK/TEK\(TFP2A.pdf\)](https://www.testmart.com/webdata/mfr_pdfs/TEK/TEK(TFP2A.pdf))). Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

CHARACTERISTICS

CRT Display - Color 16.5 cm (6.5 in.) diagonal.

Plug-in Module Capacity - Up to two plug-ins/four wavelengths.

Hardcopy Output - Optional Internal Printer: High speed, high resolution, dot matrix, 150 dots/in.

External Interfaces: Keyboard, RS-232C and GPIB.

Power Requirements -

AC Operation: 90 to 130 VAC,

47 to 440 Hz, 180 to 253 VAC, 47 to 73 Hz. DC

Operation (optional): 10 to 16 VDC.

Measurements - Event loss, event distance, twopoint distance, two-point loss, fiber attenuation, event return loss (reflectance) link return loss (ORL).

Mass Storage

Internal Floppy Disk Drive - Size: 8.9 cm (3.5 in.), 1.44 Mbyte, 720 Kbyte MS-DOS Compatible.

Internal RAM (optional) - 1 Mbyte, nonvolatile RAM for waveform storage.

Data Points Per Waveform - 16,000 maximum (normal density). 32,000 maximum (high density).

Display Range - Vertical: 1.0 dB to 100 dB full screen.

Loss Readout Resolution: 0.001 dB.

Horizontal System: 1 m to 320 km.

Distance Measurements

Units: cm, m, km, kfeet, feet.

Accuracy: $\pm 0.001\%$ + minimum cursor resolution, $\pm$ uncertainty in IR.

IR Range: 1.4000 to 1.6000.

Environmental

May be reduced with disk drive and printer operating.

Temperature - Operating: -10°C to $+55^{\circ}\text{C}$.

Nonoperating: -40°C to $+60^{\circ}\text{C}$.

Humidity - Operating: 5% to 90%, noncondensing.

Nonoperating: 5% to 90%.

Other Peripheral Capabilities

FMTAP - Off-line trace analysis and documentation software for Windows.

Remote Control - via RS-232C or GPIB interface.

Data Transfer - via RS-232C or GPIB interface.

Physical Characteristics

Plug-in Optics Module Characteristics

FM8513 - Multimode

Wavelengths - 850 / 1300 nm.

Fiber size - 62.5 μm .

Dynamic range - 26.5 dB / 26 dB.

Event dead zone - 0.2 / 3 m.

Loss dead zone - 2.5 / 14 m.

FS1315 - High Resolution SM

Wavelengths - 1310 / 1550nm.

Fiber size - Singlemode.

Dynamic range - 29.5 / 26.5 dB.

Event dead zone - 3 / 3 m.

Loss dead zone - 15 / 18 m.

FG1315 - General Purpose SM

Wavelengths - 1310 / 1550nm.

Fiber size - Singlemode.

Dynamic range - 31 / 29 dB.

Event dead zone - 4 / 4 m.

Loss dead zone - 25 / 30 m.

FL1315 Long Range SM

Wavelengths - 1310 / 1550nm.

Fiber size - Singlemode.

Dynamic range - 37.5 / 37 dB.

Event dead zone - 25 / 25 m.

Loss dead zone - 125 / 170 m.

Dimensionscm.

Length60.723.9

Width45.217.8

Height19.87.8

Weightkg1b.

Net15.033.0 (Typical)

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and with Tektronix Standard Codes and Formats

Tektronix Measurement products are
manufactured in ISO registered facilities.

49A-10733-3p359, 06/1997, 09/01/1999

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