

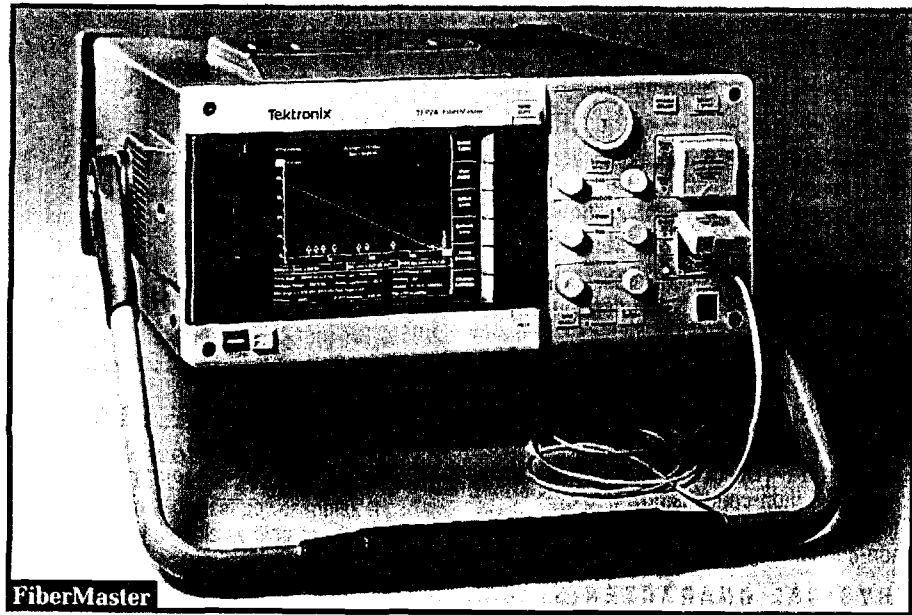
Optical Time Domain Reflectometer

TFP2A FiberMaster®

★ Features

FiberMaster

- High-speed Processing
- User-friendly
- High-resolution Color Display System
- Custom Configurable Design
- Dual Optical Plug-in Capacity Mainframe
- High-resolution and Long-range Performance
- Expandable Overview/Window Design
- Dual Trace Display Capability
- Automatic or Manual Mark Events
- Event Tables
- Pop-up Menus
- Automatic/Manual Masking
- Cleanable/Interchangeable Optical Connector Adapter
- High-resolution Internal Printer (Optional)
- Link and Event Return Loss Capability
- MS-DOS File Compatible
- Floppy Disk Drive
- Internal RAM (Optional)
- AT Compatible Keyboard Interface
- GPIB and RS-232C Interfaces
- PC Trace Analysis Software, FMTAP
- Remote Operation
- Language Options



FiberMaster OTDR

The TFP2A FiberMaster sets a high level of performance and flexibility, providing faster, easier, more efficient solutions to fiber optic network testing requirements.

FiberMaster OTDR accommodates two dual-wavelength optical plug-in modules at the same time. Fully utilized, this feature gives you dual-wavelength multimode and dual-wavelength singlemode optical cable testing at the touch of a button. This allows testing of virtually any communications network, Telco, CATV or LAN without switching modules.

FiberMaster is driven by a high-speed 32-Bit processor that delivers clear, concise, accurate waveforms in a fraction of the averaging time taken by other OTDR systems which are based on traditional PC technology.

Characteristics

CRT DISPLAY

Size – 16.5 cm (6.5 in.) diagonal.

Resolution – 640 x 480 pixels.

Type (color) – CRT with Liquid Crystal Color Shutter.

Cursors – Selectable, dual independent.

Module Capacity – Maximum 2 plug-ins providing 4 wavelengths.

HARDCOPY OUTPUT

Internal Printer – High-speed/resolution dot matrix, thermal.

Resolution – 150 dots/in. vertical and horizontal (1.1 ratio to CRT Display).

Print Dimensions – 10.2 cm x 12.7 cm (4 in. x 5 in.).

GPIB to External – HPGL Plotter and HP ThinkJet.

RS-232C to External – HPGL Plotter, HP ThinkJet, Epson, Postscript.

For your local Tektronix representative see the list in the back of this catalog or outside the U.S. call: 1-503-627-1933, inside the U.S. call: 1-800-426-2200.



See Tektronix on the World Wide Web:
<http://www.tek.com>



ISO 9001 Tektronix measurement products are manufactured in ISO registered facilities.



Product(s) complies with IEEE Standard 488.1-1987, and with Tektronix Standard Codes and Formats.

Optical Time Domain Reflectometer

TFP2A FiberMaster®

Defaults – Factory and User Selectable.

Mass Storage – MS-DOS Compatible.

Internal Floppy Disk Drive – Size: 8.9 cm (3.5 in.); 1.44 MB or 720 KB.

Internal RAM (Optional)– Capacity: 1 MB, non-volatile.

Keyboard Interface – AT compatible, 6-Pin modular.

DISPLAY RANGE

Vertical System – Vertical Display Range (one way): 1.0 dB to 100 dB. Loss Readout Resolution Range: 0.001 dB to 0.01 dB.

Horizontal System – Distance Display Range: 1 m to 320 km. Distance Measurement Cursor Resolution 850 nm MM: 5 cm normal density; 1 cm high density. 1300 nm MM, 1310 nm SM, 1550 nm SM: 20 cm normal density, 10 cm high density.

Index of Refraction Range – 1.4000 to 1.6000.

Distance Measurement Accuracy – ±0.001%, ± min. cursor resolution, ± uncertainty in fiber cal. factor.

Number of DataPoints Collected per Waveform –16 K max. (Normal), 32 K max. (High Density).

PHYSICAL CHARACTERISTICS

Dimensions*1	cm	in.
Length	60.7	23.9
Width	45.2	17.8
Height	19.8	7.8
Weight *2	kg	lb.
Net	15.0	33.0

*1 Includes front cover, handle and feet.

*2 Includes mainframe optics module, internal printer, disk drive.

Power Requirements – AC Operation: 90-130 V AC, 47-440 Hz, 180-253 V AC, 47-73 Hz. Optional 10-16 V DC.

Laser Product Safety Classification – Class I.

ORDERING INFORMATION

For price information: Outside the U.S. contact your local Tektronix representative, inside the U.S. see the price list in the back of this catalog.

FiberMaster WITH COLOR DISPLAY

Order TFP2A.
Includes: Operator's Manual (070-9189-02); Soft Carrying Case (016-1037-01); Front Panel Cover (200-3566-00); Power Card (161-0104-00); 3 1/2 inch Floppy Disk Drive.

OPTICS PLUG-IN OPTIONS – MULTIMODE

- OPT. 01 – 850 nm MM.
- OPT. 03 – 850/1300 nm MM.
- OPTICS PLUG-IN OPTIONS – SINGLEMODE
- OPT. 04 – 1310 nm SM. High Resolution.
- OPT. 05 – 1550 nm SM. High Resolution.
- OPT. 06 – 1310/1550 nm SM. High Resolution.
- OPT. 08 – 1310/1550 nm SM Long Range.
- OPT. 09 – 1550 nm SM Long Range.
- OPT. 10 – 1310 nm SM. General Purpose.
- OPT. 11 – 1310/1550 nm SM. General Purpose.

For Options 01-11 select one connector per option at no charge.

CONNECTOR OPTIONS– MULTIMODE

- OPT. 20 – Biconic (119-4515-00).
- OPT. 21 – FCPC (119-4516-00).
- OPT. 22 – D4PC (119-4514-00).
- OPT. 23 – SMA906 (119-4557-00).
- OPT. 24 – STPC (119-4513-00).
- OPT. 25 – DIN 47256 (119-4546-00).
- OPT. 26 – Diamond 3.5 (119-4558-00).
- OPT. 27 – Diamond 2.5 (119-4556-00).
- OPT. 28 – SCPC (119-4518-00).
- OPT. 29 – SMA 2.5 (119-4517-00).

CONNECTOR OPTIONS – SINGLEMODE

- OPT. 30 – Biconic (119-4515-00).
- OPT. 31 – FCPC (119-4516-00).
- OPT. 32 – D4PC (119-4514-00).
- OPT. 33 – SMA 905/906 (119-4557-00).
- OPT. 34 – STPC (119-4513-00).
- OPT. 35 – DIN 47256 (119-4546-00).

- OPT. 36 – Diamond 3.5 (119-4558-00).
- OPT. 37 – Diamond 2.5 (119-4556-00).
- OPT. 38 – SCPC (119-4518-00).
- OPT. 39 – SMA 2.5 (119-4517-00).
- OPT. 41 – FCAPC (119-5115-00).
- OPT. 42 – SCAPC (119-5116-00).

OFF-WAVELENGTH MODULES

- OPT. WT – FS1315-1245/1650 nm.
- OPT. WU – FS1500/1650 nm.
- OPT. WV – FS1500/1625 nm.

INTERNATIONAL POWER PLUG OPTIONS

- OPT. A1 – Universal Euro 220 V, 50 Hz.
- OPT. A2 – United Kingdom 240 V, 50 Hz.
- OPT. A3 – Australian 240 V, 50 Hz.
- OPT. A4 – North American 240 V, 60 Hz.
- OPT. A5 – Switzerland 220 V, 50 Hz.

FACTORY INSTALLED OPTIONS

- OPT. 1A – Internal RAM, 1 MB.
- OPT. 1S – Trace Analysis Package PC Software-FMTAP.
- OPT. 16 – Internal High Speed Thermal Printer.
- OPT. 17 – DC Power Input (10-16 V DC).
- OPT. 19 – AT Compatible Keyboard. Order 118-7637-00 and 174-2356-00.
- OPT. 1R – Rackmount Kits (fits 19 in. racks).
- OPT. 1T – Hard Shell Transit Case Order 016-1036-00.

OPTICS MODULES/CONNECTOR

When ordering Optics Modules for previously purchased mainframes, use the following numbers plus connector option.

- FG1300 – 1310 nm Singlemode. General Purpose.
- FG1315 – 1310/1550 nm Singlemode. General Purpose.
- FM8500 – 850 nm Multimode, 62.5 µm.
- FM8513 – 850/1300 nm Multimode, 62.5 µm.
- FM1300 – 1300 nm Multimode, 62.5 µm.
- FS1500 – 1550 nm Singlemode. High Resolution.

- FS1315 – 1310/1550 nm Singlemode. High Resolution
 - FL1315 – 1310/1550 nm SM Long Range.
 - FL1500 – 1550 nm SM Long Range.
- Out-of-band wavelength modules available. Call for information.

MEASUREMENT SERVICE OPTIONS

- OPT. C3 – Three years of Calibration Services.
- OPT. C5 – Five years of Calibration Services.
- OPT. D3 – Test Data (requires Opt. C3).
- OPT. D5 – Test Data (requires Opt. C5).
- OPT. R3 – Repair warranty extended to cover three years.
- OPT. R5 – Repair warranty extended to cover five years.

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