

Fiber Test Kit (DSP-FTK)

DSP-FTK — Fiber Test Kit

- Includes fiber optic power meter (DSP-FOM) and LED light source (FOS-850/1300)
- Measures optical power in dBm or μ W
- Measures optical power loss in dB
- Optical power meter measures light energy at 850 nm, 1300 nm, 1310 nm and 1550 nm
- LED power source generates both 850 nm and 1300 nm wavelengths
- Optional laser power source generates both 1310 nm and 1550 nm wavelengths
- Stores test results automatically in the cable tester
- Specifies maximum acceptable loss limit
- Specifies and documents the direction of measurement (A-B or B-A)
- Lightweight, heavy-duty design for rugged field use



Now you can verify fiber optic cable performance with any of your DSP Series Cable Testers, the OneTouch Network Assistant or the OptiView Integrated Network Analyzer. By simply connecting Fluke Network's Fiber Test Kit (DSP-FTK) you can measure power or power loss in optical fiber links used in premises wiring and Local Area Networks (LAN). The DSP-FTK detects poor connections, bad splices, broken fibers, plus loss of light energy due to cable bends or fiber type mismatches. And of course, these tools deliver all the accuracy, ease-of-use and convenience you expect from Fluke Networks.

Simplifies fiber testing

The fiber optic power meter (DSP-FOM) interfaces with all DSP Series Cable Testers, the OneTouch Network Assistant and the OptiView Integrated Network Analyzer using a short twisted-pair patch cable which plugs into the 8-pin modular jack on these testers. Just select the wavelength to be measured with the optical meter's slide switch (850 nm, 1300 nm and 1550 nm), and the tester will input, display and store the measurement. Test results for optical links are saved in the cable tester's (DSP-100, DSP-2000 or DSP-4000 Series) memory in the same way as results for copper cabling links.

The DSP-FOM works with DSP-100s with software version 3 or higher, all DSP-2000s and DSP-4000s, OneTouch Network Assistant with software version 2.2 or higher and the OptiView Integrated Network Analyzer with software version 2.5 or higher. For information and to download the most recent software release for your product, visit www.flukenetworks.com/support.

Allows a choice of test options

Use the DSP-FOM Fiber Optic Power Meter to measure optical power, in dBm or μ W. You can also measure optical power loss (expressed in dB). The power loss (or attenuation) measurement compares the measured light energy at the end of the link (output) to the reference level at the input (the light source). This loss test result delivers a true optical loss measurement for the link by subtracting the loss associated with the fiber optic patch cables. The operator can specify the Pass/Fail limit for loss and also the direction (A-B or B-A) of the measurement.

The Fluke Networks fiber optic sources work with the DSP-FOM to test either multimode or singlemode fiber. The LED power source generates 850 nm and 1300 nm wavelengths while the LASER source generates 1310 nm and 1550 nm wavelengths.

Generates complete reports through a PC or directly to a printer

You can record and store any combination of copper or fiber Autotest reports with the DSP Series cable testers. Each test report can be assigned a unique, user-defined label, and can be downloaded to a PC or printed directly from the cable tester to a serial printer. Test reports contain wavelength, measured loss, loss limit, test direction and reference level.

**See more clearly with Fluke Networks
Fiber Vision Solutions**



Ordering Information

DSP-FTK	Fiber Test Kit for DSP-100, DSP-2000, DSP-4000, OneTouch Network Assistant and OptiView Integrated Network Analyzer - DSP-FOM, Optical Power Meter for DSP Series, OneTouch Network Assistant and OptiView Integrated Network Analyzer - FOS-850/1300, Combination 850 nm / 1300 nm Source - FOC-ST/ST (2), ST-ST Fiber Optic Patch Cables (Multimode) - ST-ST Adapter - Instrument Instruction Sheet - Instrument Case
DSP-FOM	Fiber Optic Power Meter for DSP-100, DSP-2000, DSP-4000, OneTouch Network Assistant and OptiView Integrated Network Analyzer - FOC-ST/ST (2), ST-ST Fiber Optic Patch Cables (Multimode) - ST-ST Adapter - Instrument Instruction Sheet - Instrument Case
LS-1310/1550	Laser Source used with Fiber Optic Power Meter to measure power or loss in single-mode fiber optic links - Dual 1310/1550 laser light source - NF100SM (2), ST- ST Fiber Optic Patch Cables (Singlemode) - NF300SM (1), ST to ST Fiber Optic Adapter (Singlemode) - Instrument Instruction Sheet

Available accessories

FOS-850	850 nm Fiber Optic Source (LED, Multimode)
FOS-1300	1300 nm Fiber Optic Source (LED, Multimode)
FOS-850/1300	Combination 850 nm / 1300 nm Fiber Optic Source
FOC-ST/ST	ST to ST Fiber Optic Patch Cable (Multimode)
FOC-ST/FC	ST to FC Fiber Optic Converter Cable (Multimode)
FOC-ST/SC	ST to SC Fiber Optic Converter Cable (Multimode)
FOC-ST/SMA	ST to SMA Fiber Optic Converter Cable (Multimode)
NF100SM	ST to ST Fiber Optic Patch Cable (Singlemode)
NF110SM	ST to SC Fiber Optic Converter Cable (Singlemode)
NF120SM	ST to FC Fiber Optic Converter Cable (Singlemode)
NF300SM	ST to ST Fiber Optic Adapter
NF310SM	SC to SC Fiber Optic Adapter

Easy to learn and use

The DSP-FTK Fiber Test Kit complements the DSP Series Cable Testers, the OneTouch and the OptiView Integrated Network Analyzer with the same technological leadership and ease of use that has made Fluke Networks an industry standard. The large, easy-to-read

menus on the testers display prompt the operator through each step of a fiber link test. The fiber test results may be saved in the tester memory using a cable name up to 27 characters long.

Specifications

DSP-FTK Fiber Test Kit

DSP-FOM Optical Power Meter

Calibrated wavelengths	850 nm, 1300 nm, and 1550 nm
Dynamic range	+3 to -50 dBm
Measurement accuracy	±0.25 dB at -10.0 dBm and 25°C
Display resolution	0.01 dB (0.001 µW)
Detector type	Germanium
Optical adapter	ST
Operating temperature	0°C to +40°C
Storage temperature	-20°C to +70°C
Dimensions	4.5 x 2.5 x 1.5 in (11.4 x 6.4 x 3.8 cm)
Weight	5.0 oz. (142g)
Battery type	9V alkaline
Battery life	90 hours typical

FOS-850/1300 Optical Source

Output wavelengths	850 nm and 1300 nm
Power output	-20 dBm
Source type	LED
Optical adapter	ST
Operating temperature	0°C to +40°C
Storage temperature	-20°C to +70°C
Dimensions	4.5 x 2.5 x 1.5 in (11.4 x 6.4 x 3.8 cm)
Weight	5.0 oz. (142g)
Battery type	9V alkaline
Battery life	24 hours typical

Optional LS-1310/1550 Laser Source

Output wavelengths	1310 nm or 1550 nm, switch selectable
Power output	-10 dBm, adjustable
Source type	Laser (Class I)
Optical adapter	Single Mode ST
Operating temperature	0°C to +40°C
Storage temperature	-10°C to +60°C
Dimensions	6.8 x 3 x 1.5 in (17.4 x 7.6 x 3.8 cm)
Weight	9.4 oz. (266 g)
Battery type	9V alkaline
Battery life	16 hours typical

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