



Turbotest 400 Fiber Optic Certification Test Sets

The Turbotest 400 Series Fiber Optic Certification Test Sets are designed to quickly test either multimode or singlemode fiber links, and to generate certification reports based on the latest fiber standards. Two models are available - the T410 operates at 850 and 1300 nm for multimode applications, and the T420 that operates at 1310 and 1550 nm for singlemode applications.

Testing fiber cable with the Turbotest 400 Series saves time and money. Once the testing standard has been selected, it's only moments after pressing the AutoTest key before PASS/FAIL results are displayed. AutoTests are based on length, propagation delay, dual-wavelength loss results and user-supplied data such as the number of splices and connections. The Turbotest 400 can also operate like a traditional optical power meter to measure optical power at 850, 1300, 1310, and 1550 nm. Using the supplied Windows® software, test results can be downloaded to your PC to document your network or to produce professional certification reports for your customer. The Turbotest 400 Series stores up to 1000 fiber test results in user defined files. To speed the testing process, both models can automatically increment fiber numbers.

AutoTest certification standards include TIA 568-A, ISO 11801, EN 50173, 10 Base-FL, 100 Base-FX, 1000 Base-SX, 1000 Base-LX, and FDDI. Additional certification standards can be programmed by the user.

features

- Measure loss and length on multimode or singlemode fiber links
- 850/1300 nm (LED) and 1310/1550 nm (Laser) models available
- Modular transmit and receive ports
- Selectable certification standards providing PASS/FAIL results
- Store test results for up to 1,000 fibers in user-defined files
- Transfer data to a PC and generate certification reports using supplied Windows® software



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specifications

Model	T410	T420
Transmit Port Specifications		
Emitter Type	LED	Laser
Emitter Classification	Class 1 ³	Class 1 ³
AutoTest Wavelengths	850 / 1300 nm	1310 / 1550 nm
Power (average)	-20 dBm (62.5 μm) ¹	-10 dBm (singlemode) ¹
Spectral Width (FWHM)	30-60 / 100-140 nm ¹	<10 / <10 nm
Modular adapter	Removable for easy cleaning	
Adapter	SC or ST	
Receive Port Specifications		
Detector Type	Germanium (Ge)	
Calibrated Wavelengths	850, 1300, 1310, 1550 nm	
Power Measurement Accuracy (25° C)	±0.25 dB @ -20 dBm ²	±0.25 dB @ -10 dBm
Length Measurement Range	11 dB / 5 km	11 dB / 20 km
Length Measurement Accuracy	±2% ±1.5 m	
Modular adapter cap	Removable for easy cleaning	
Adapter Cap	SC or ST	
General Specifications		
Display	LCD with back-light	
Power (each unit)	4 AA alkaline batteries (AC adapters available)	
Battery Life (typical)	16 hrs (8 hrs with back-light on)	
Operating Temperature	0° to + 50° C	
Weight (each unit)	1.8 lb (0.8 kg)	
Size H x W x D (each unit)	7.4 x 4.4 x 2.2 in (18.8 x 11.2 x 5.6 cm)	

1 Typical 3 FDA 21 CFR 1040.10 and 1040.11, and IEC 60825-1 amended Q2, 2001
 2 -10 dBm @ 1550 nm

ordering information

The 400 test kit includes: (1) T400 main unit, (1) T400 remote unit, (2) adapter caps, serial cable, Windows® software, and a carry case. AC adapters are available.



Model Number	Description
T410-SC	Multimode units with SC (transmit port) adapters and SC (receive port) adapter caps
T410-ST	Multimode units with ST (transmit port) adapters and ST (receive port) adapter caps
T420-SC	Single-mode units with SC (transmit port) adapters and SC (receive port) adapter caps
T420-ST	Single-mode units with ST (transmit port) adapters and ST (receive port) adapter caps

Accessories	Description
4050-00-0108	AC adapter, 100-220 VAC, 50-60 Hz. Specify North American or country cord type when ordering