The MTCK Power Meter measures optical power at 850, 1300, 1310 and 1550nm. It can store reference levels for faster, more efficient testing. The MTCK Power Meter uses Snap On Connector Interface (SOC) to connect FC, SC and ST connectors.

MTCK Power Meter & Multimode Light Source

MTCK LED Source for Insertion Loss

The MTCK LED Source is the perfect light source for performing insertion loss testing on multimode fiber optic cabling. Dual wavelength output (850 and 1300nm) enables fast and accurate insertion loss measurements. Once the user has set the reference with an optical power meter, the MTCK LED Source provides a stable output for hours of continuous measurements. The MTCK LED Source is configured for FC, SC and ST fiber optic connectors.

About the MTCK Power Meter

The small size of the MTCK Power Meter makes it easy to carry yet provides powerful results. The optical power meter is the perfect tool for installation and testing of fiber optic cabling. The MTCKPower Meter can be used to measure optical power or used in conjunction with the MTCK Multimode or Single Mode Light Source to perform insertion loss testing on fiber optic cabling.

MCKT-001 Parts List

AFSI MultiMode MTC Test Kit	Qty
Kimwipes	1
MTCK LED Source, 850/1300nm, Standard 62.5/125 70/70 EMD	1
MTCK Power Meter	1
SOC Adapter, AT&T ST-PC	1
Carrying Case, Test Set	1
MIL ST Adapter, SM	4
Optic Pad MSDS	1
Container, Plastic, 1 Compartment	1
MTC-ST - ST MM	2
Optic Pad	12

MTCK LED Source Features

- 850/1300nm wavelengths
- Stable, calibrated output
- Easy to use
- Continuous wave and modulated output
- Fixed connector inteface FC, SC or ST
- Long battery life for approximately 80 hours of continuous operation
- User selctable auto shut-off
- Rugged and splash-proof
- Economically priced

MTCK-001 850/1300nm LED Model

MTCK LED Source Specifications

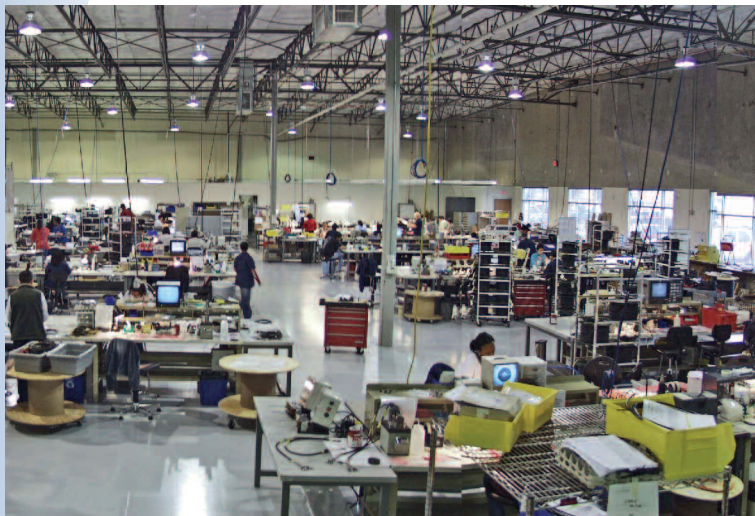| Optical		
Center Wavelengths	850nm	1300nm
Range (Typical)	840 to 880nm	1270 to 1345nm
Max Spectral Width	55nm	150nm
Stability (1 hour)	±0.05dB	±0.05dB
Typical Power Output		
100/140um	-13dBm	-20dBm
62.5/125um	-13dBm	-20dBm
50/125um	-14dBm	-20dBm
Modulation Frequency	270 kHz, 1 kHz and 2 kHz	270kHz, 1kHz and 2kHz
Power Requirements	Two AA size 1.5V batteries (approximately 90 hours of continuous operation)	
Connector Interface	FC, SC or ST	FC, SC or ST
Environmental		
Operating Temperature	-15 to +55°C	
Storage Temperature	-35 to +70°C	
Humidity	0 to 95% non-condensing	
Dimensions	7.2 x 14.2 x 3.5cm (2.8 x 5.6 x 1.4in)	
Weight	241g (8.5oz)	
CE	EN61010 EN50081-1: 1992 EN55011, Group 1, Class A EN50082-1: 1992 IEC 801-2, 3 and 4	

MTCK-001 Fiber Optic Power Meter Features

- Easy to use - three button control of all functions
- Loss measurements in (dB) power measurements in (dBm)
- 0.01dB measurement relolution
- Multi-wavelength storage - stores and recalls reference power level
- Snap on connector interface adapts to FC, SC and ST connectors
- Long battery life - approximately 100 hours of continuous operation
- User selectable auto shut-off
- Rugged and splash-proof
- Economically priced

MTCK-001 Fiber Optic Power Meter

MTCK-001 Fiber Optic Power Meter Specifications

Optical	
Calibration Wavelengths	850, 1300, 1310 and 1550nm
Power Range	-13 to -60dBm
Accuracy	±0.25dB
Linearity	
+3 to -3dBm	±0.5dB
-3 to -50dBm	±0.05dB
-50 to -60dBm	±0.5dB
Resolution	0.01dB
Power Requirements	Two AA size 1.5V batteries (approximately 100 hours of continuous operation)
Connector Interface	FC, SC or ST
Environmental	
Operating Temperature	-15 to +55°C
Storage Temperature	-35 to +70°C
Humidity	0 to 95% non-condensing
Dimensions	7.2 x 14.2 x 3.5cm (2.8 x 5.6 x 1.4in)
Weight	241g (8.5oz)
CE	EN61010 EN50081-1: 1992 EN55011, Group 1, Class A EN50082-1: 1992 IEC 801-2, 3 and 4

How to Order

For more information on how to order or to obtain a price quote on our AFSI MTCK-001 products, call toll free (U.S. only) at 800.472.4225, international calls please use 1.214.547.2400 or e-mail info@fibersystems.com.

About Amphenol Fiber Systems International

Amphenol Fiber Systems International (AFSI) designs, manufactures, markets and supports reliable and innovative fiber optic interconnect solutions that withstand the harsh environments of military, oil & gas, mining and broadcast applications. After more than a decade in business, AFSI continues to uphold its position as a global leader in fiber optic interconnect components and systems such as termini, M28876, MIL-ST, TFOCA and the TFOCA-II® connector, which AFSI developed and patented.

AFSI has delivered millions of fiber optic connectors in more than 22 countries. Whenever there is a need for superior, cost-effective fiber optic systems and products that will stand up to demanding operating environments, you can rely on AFSI for engineering know-how, top-quality products and expert technical support.

For more information about AFSI, visit www.fibersystems.com.

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