



FIBER TOOLS

***XL fiberTOOLS™* SERIES**

PROFESSIONAL FIBER
OPTIC INSTRUMENTS



XL fiberTOOLS™ SERIES OVERVIEW

INSTRUMENTS DESIGNED FOR FIBER OPTIC CABLE TESTING.

The XL fiberTOOLS™ are designed for the professional to perform installation and maintenance measurements on fiber optic cabling networks. The instrument family consists of individual devices (optical power meters, 850/1300nm LED sources, 1310/1550nm Laser sources, Visual Fault Locator) and complete Insertion Loss Test Sets. The XL fiberTOOLS™ are designed to accurately measure optical power levels and link loss on multimode and singlemode cabling networks. These full feature general purpose fiber optic instruments are easy to operate and economically priced to outfit all technicians performing fiber optic installation and maintenance.



560XL FIBER OPTIC POWER METER

- Easy to use - three buttons control all functions
- Long battery life
- Loss measurements in (dB); power measurements in (dBm)
- 0.01dB measurement resolution
- Snap on connector interface adapts to FC, SC and ST connectors. Contact Tempo for other available adapters
- User selectable auto shut-off
- Rugged and splash-proof
- Economically priced

SPECIFICATIONS:

| | | | |
|--------------------------|--|--------|--|
| Calibration Wavelengths: | 850nm, 1300nm, 1310nm and 1550nm | | |
| Power Range: | +3 dBm to -60 dBm | | |
| Accuracy: | ±0.25dB | | |
| Linearity at: | +3dBm to -3dBm | ±0.5dB | |
| | -3dBm to -50dBm | ±0.1dB | |
| | -50dBm to -60dBm | ±0.5dB | |
| Resolution: | 0.01dB | | |
| Power Requirements: | Two AA size 1.5V batteries (approx. 100 hours continuous operation) | | |
| Connector Interface | FC, SC or ST | | |

| | |
|------------------------|---|
| Operating Temperature: | -15° C to +55° C |
| Storage Temperature: | -35° C to +70° C |
| Humidity: | 0 to 95% non-condensing |
| Dimensions: | 7.2 x 14.2 x 3.5 cm (2.8 x 5.6 x 1.4 in.) |
| Weight: | 241g (8.5 oz.) |
| CE: | EN61010; EN50081-1:1992; EN55011, Group1, Class A EN50082-1: 1992 IEC 801-2, -3, -4 |



567XL SILICON FIBER OPTIC POWER METER

- Easy to use - three buttons control all functions
- Long battery life
- Loss measurements in (dB); power measurements in (dBm)
- 0.01dB measurement resolution
- Snap on connector interface adapts to FC, SC and ST connectors. Contact Tempo for other available adapters
- User selectable auto shut-off
- Rugged and splash-proof
- Economically priced

SPECIFICATIONS:

| | | | |
|--------------------------|--|--------|--|
| Detector Type: | 3 x 3.5 mm Silicon | | |
| Calibration Wavelengths: | 635nm, 780nm, and 850nm | | |
| Power Range: | +3 dBm to -60 dBm | | |
| Accuracy: | ±0.25dB | | |
| Linearity at: | +3dBm to -3dBm | ±0.5db | |
| | -3dBm to -50dBm | ±0.1db | |
| | -50dBm to -60dBm | ±0.5db | |
| Resolution: | 0.01dB | | |
| Power Requirements: | Two AA size 1.5V batteries (approx. 100 hours continuous operation) | | |
| Connector Interface: | SQC | | |
| Operating Temperature: | -15° C to +55° C | | |
| Storage Temperature: | -35° C to +70° C | | |
| Humidity: | 0 to 95% non-condensing | | |
| Dimensions: | 7.2 x 14.2 x 3.5 cm (2.8 x 5.6 x 1.4 in.) | | |
| Weight: | 241g (8.5 oz.) | | |
| CE: | EN61010; EN50081-1:1992; EN55011,Group1, Class A EN50082-1: 1992 IEC 801-2, -3, -4 | | |

*Three Buttons Control
ALL Functions!*





568XL HIGH INTENSITY OPTIC POWER METER

- Easy to use - three buttons control all functions
- Long battery life
- Loss measurements in (dB); power measurements in (dBm)
- 0.01dB measurement resolution
- Multi-Wavelength Storage: Store and recall reference power levels for faster, more efficient measurements!
- Snap on connector interface adapts to FC, SC and ST connectors. Contact Tempo for other available adapters
- User selectable auto shut-off
- Rugged and splash-proof
- Economically priced

SPECIFICATIONS:

| | | |
|--------------------------------------|--|--|
| Detector Type: | 2 mm indium-arsenide (InGaAs) | |
| Calibration Wavelengths: | 980nm, 1310nm, and 1550nm | |
| Power Range: | +25 to -30dBm (1310nm and 1550nm); +25 to -27dBm measurement range at 980nm. To avoid thermal damage, limit exposure high power (greater than +23dBm) to less than 30 minutes.; +25 to -27dBm (980nm only) | |
| Linearity at: (1310nm and 1550nm) | +25dBm to +22dBm +22dBm to +18dBm +18dBm to +10dBm +10dBm to -30dBm | ±1.0dB ±0.5dB ±0.2dB ±0.1dB |
| Absolute Accuracy: | ±0.25dB at calibration conditions | |
| Wavelength Dependence: | 975 to 985nm 1270 to 1330nm 1500 to 1625nm | 0.025dB/nm 0.0033dB/nm 0.0016dB/nm |
| Polarization Dependence: | <0.1dB | |
| Resolution: | ±0.01dB | |
| Power Requirements: | Two AA size 1.5V batteries (approx. 100 hours continuous operation) | |
| Connector Interface: | SQC | |
| Operating Temperature: | -15° C to +55° C | |
| Storage Temperature: | -35° C to +70° C | |
| Humidity: | 0 to 95% non-condensing | |
| Dimensions: | 7.2 x 14.2 x 3.5 cm (2.8 x 5.6 x 1.4 in.) | |
| Weight: | 241g (8.5 oz.) | |
| CE: | EN61010; EN50081-1:1992; EN55011, Group1, Class A EN50082-1: 1992 IEC 801-2, -3, -4 | |



570XL 850/1300nm LED SOURCE

- Easy to use
- Long battery life - approx. 80 hours
- 850/1300nm wavelengths
- Stable calibrated output
- Continuous wave and modulated output
- Fixed connector interface FC, SC or ST
- User selectable auto shut-off
- Rugged and splash-proof
- Economically priced

SPECIFICATIONS:

| | | |
|-----------------------------|--|--|
| Center Wavelength: | 850nm | 1300nm |
| Range (Typical): | 820nm to 870nm | 1270nm to 1345nm |
| Max. Spectral Width (FWHM): | 60nm | 150nm |
| Stability (1 hour): | ±0.05dB | ±0.05dB |
| Typical Power Output: | 100/140um -20dBm 62.5/125um -20dBm 50/125um -21dBm | 100/140um -20dBm 62.5/125um -20dBm 50/125um -21dBm |
| Modular Frequency: | 270 kHz, 1 kHz and 2 kHz | 270 kHz, 1 kHz and 2 kHz |
| Power Requirements: | Two AA size 1.5V batteries (approx. 40 hours continuous operation) | Two AA size 1.5V batteries (approx. 40 hours continuous operation) |
| Connector Interface | FC, SC or ST | FC, SC or ST |

| | |
|------------------------|---|
| Operating Temperature: | -15° C to +55° C |
| Storage Temperature: | -35° C to +70° C |
| Humidity: | 0 to 95% non-condensing |
| Dimensions: | 7.2 x 14.2 x 3.5 cm (2.8 x 5.6 x 1.4 in.) |
| Weight: | 241g (8.5 oz.) |
| CE: | EN61010; EN50081-1:1992; EN55011, Group1, Class A EN50082-1: 1992 IEC 801-2, -3, -4 |



580XL 1310/1550nm LED SOURCE

- Easy to use
- Long battery life - approx. 80 hours
- 1310/1550nm wavelengths
- Stable calibrated output
- Continuous wave and modulated output
- Fixed connector interface FC, SC or ST
- User selectable auto shut-off
- Rugged and splash-proof
- Economically priced

SPECIFICATIONS:

| | | |
|-----------------------------|--|--|
| Center Wavelength: | 1310nm | 1550nm |
| Range (Typical): | 1280nm to 1340nm | 1520nm to 1580nm |
| Max. Spectral Width (FWHM): | <5nm | <5nm |
| Stability (1 hour): | ±0.05dB | ±0.05dB |
| Typical Power (9/125): | Minimum -8dBm Typical -7dBm | Minimum -8dBm Typical -7dBm |
| Modular Frequency: | 270 kHz, 1 kHz and 2 kHz | 270 kHz, 1 kHz and 2 kHz |
| Power Requirements: | Two AA size 1.5V batteries (approx. 80 hours continuous operation) | Two AA size 1.5V batteries (approx. 80 hours continuous operation) |
| Connector Interface | FC, SC or ST | FC, SC or ST |

| | |
|------------------------|---|
| Operating Temperature: | -15° C to +55° C |
| Storage Temperature: | -35° C to +70° C |
| Humidity: | 0 to 95% non-condensing |
| Dimensions: | 7.2 x 14.2 x 3.5 cm (2.8 x 5.6 x 1.4 in.) |
| Weight: | 241g (8.5 oz.) |
| CE: | EN61010; EN50081-1:1992; EN55011, Group1, Class A EN50082-1: 1992 IEC 801-2, -3, -4 |
| CDRH Laser Class: | Class 1 |



573XL 650nm LED SOURCE FOR LARGE CORE PLASTIC AND GLASS FIBER

- Easy to use
- Long battery life - approx. 24 hours
- Stable calibrated output
- 850nm wavelength
- Continuous wave and modulated output
- ST or Universal connector interface
- User selectable auto shut-off
- Rugged and splash-proof
- Economically priced

SPECIFICATIONS:

| | |
|--|---|
| Center Wavelength: | 650nm |
| Range (Typical): | 630nm to 670nm |
| Max. Spectral Width (FWHM): | <40nm |
| Stability (1 hour): | ±0.05dB |
| Power Output into MM 200/300 SI Fiber: | -15dBm ±0.5dB |
| Modular Frequencies: | 270 kHz, 1 kHz and 2 kHz ±0.5dB |
| Power Requirements: | Two AA size 1.5V batteries (approx. 24 hours continuous operation) |
| Connector Interface | ST or Universal connector interface, physical contact (UCI-PC) |
| Operating Temperature: | -15° C to +55° C |
| Storage Temperature: | -35° C to +70° C |
| Humidity: | 0 to 95% non-condensing |
| Dimensions: | 7.2 x 14.2 x 3.5 cm (2.8 x 5.6 x 1.4 in.) |
| Weight: | 241g (8.5 oz.) |
| CE: | EN61010; EN50081-1:1992; EN55011, Group1, Class A EN50082-1: 1992 IEC 801-2, -3, -4 |



577XL M90 850nm LED SOURCE WITH M90 LAUNCH CONDITION USING 62.5/125 FIBER

- Easy to use
- Long battery life - approx. 24 hours
- Stable calibrated output
- 850nm wavelength
- Continuous wave and modulated output
- Universal connector interface
- User selectable auto shut-off
- Rugged and splash-proof
- Economically priced

SPECIFICATIONS:

| | |
|---|---|
| Center Wavelength: | 850nm |
| Range (Typical): | 820nm to 880nm |
| Max. Spectral Width (FWHM): | <40nm |
| Stability (1 hour): | ±0.05dB |
| Power Output into MM 62.5/125 SI Fiber: | 20dBm |
| Modular Frequencies: | 270 kHz, 1 kHz and 2 kHz ±5% |
| Power Requirements: | Two AA size 1.5V batteries (approx. 24 hours continuous operation) |
| Connector Interface | Universal connector interface, physical contact (UCI-PC) |
| Operating Temperature: | -15° C to +55° C |
| Storage Temperature: | -35° C to +70° C |
| Humidity: | 0 to 95% non-condensing |
| Dimensions: | 7.2 x 14.2 x 3.5 cm (2.8 x 5.6 x 1.4 in.) |
| Weight: | 241g (8.5 oz.) |
| CE: | EN61010; EN50081-1:1992; EN55011, Group1, Class A EN50082-1: 1992 IEC 801-2, -3, -4 |



577XL AS100 850nm LED SOURCE WITH AS-100 LAUNCH CONDITION USING 100/140 FIBER

- Easy to use
- Long battery life - approx. 24 hours
- Stable calibrated output
- 850nm wavelength
- Continuous wave and modulated output
- Universal connector interface
- User selectable auto shut-off
- Rugged and splash-proof
- Economically priced

SPECIFICATIONS:

| | |
|---|---|
| Center Wavelength: | 850nm |
| Range (Typical): | 820nm to 880nm |
| Max. Spectral Width (FWHM): | <60nm |
| Stability (1 hour): | ±0.05dB |
| Power Output into MM 62.5/125 SI Fiber: | -20dBm |
| Modular Frequencies: | 270 kHz, 1 kHz and 2 kHz ±5% |
| Power Requirements: | Two AA size 1.5V batteries (approx. 24 hours continuous operation) |
| Connector Interface | Universal connector interface, physical contact (UCI-PC) |
| Operating Temperature: | -15° C to +55° C |
| Storage Temperature: | -35° C to +70° C |
| Humidity: | 0 to 95% non-condensing |
| Dimensions: | 7.2 x 14.2 x 3.5 cm (2.8 x 5.6 x 1.4 in.) |
| Weight: | 241g (8.5 oz.) |
| CE: | EN61010; EN50081-1:1992; EN55011, Group1, Class A EN50082-1: 1992 IEC 801-2, -3, -4 |

5670XL MULTIMODE FIBER OPTIC TEST SET

- Insertion loss test set for multimode fiber
- 850/1300nm loss measurements
- Connector for FC, SC or ST
- Easy-to-use portable package
- Rugged package design
- Economically priced



5670-FC INCLUDES:

| | |
|----------|--------------------------------------|
| 560XL | Optical Power Meter |
| 570XL-FC | 850/1300nm LED Source w/FC Connector |
| T1020 | FC/PC SOC Adapter |
| 914B | Carrying Case |

5670-SC INCLUDES:

| | |
|----------|--------------------------------------|
| 560XL | Optical Power Meter |
| 570XL-SC | 850/1300nm LED Source w/SC Connector |
| 1062 | SC/PC SOC Adapter |
| 914B | Carrying Case |

5670-ST INCLUDES:

| | |
|----------|--------------------------------------|
| 560XL | Optical Power Meter |
| 570XL-ST | 850/1300nm LED Source w/ST Connector |
| T1030 | ST/PC SOC Adapter |
| 914B | Carrying Case |

5680XL SINGLEMODE FIBER OPTIC TEST SET

- Insertion loss test set for singlemode fiber
- 1310/1550nm loss measurements
- Connector for FC, SC or ST
- Easy-to-use portable package
- Rugged package design
- Economically priced



5680-FC INCLUDES:

| | |
|----------|---------------------------------------|
| 560XL | Optical Power Meter |
| 580XL-FC | 1310/1550nm LED Source w/FC Connector |
| T1020 | FC/PC SOC Adapter |
| 914B | Carrying Case |

5680-SC INCLUDES:

| | |
|----------|---------------------------------------|
| 560XL | Optical Power Meter |
| 580XL-SC | 1310/1550nm LED Source w/SC Connector |
| 1062 | SC/PC SOC Adapter |
| 914B | Carrying Case |

5680-ST INCLUDES:

| | |
|----------|---------------------------------------|
| 560XL | Optical Power Meter |
| 580XL-ST | 1310/1550nm LED Source w/ST Connector |
| T1030 | ST/PC SOC Adapter |
| 914B | Carrying Case |

5690XL MULTIMODE & SINGLEMODE FIBER OPTIC TEST SET

- Insertion loss test set for multimode and singlemode fiber
- 850/1300nm loss measurements
- 1310/1550nm loss measurements
- Connector for FC, SC or ST
- Easy-to-use portable package
- Rugged package design
- Economically priced



5890-FC INCLUDES:

| | |
|----------|---|
| 560XL | Optical Power Meter |
| 570XL-FC | 850/1300nm LED Source w/FC Connector |
| 580XL-FC | 1310/1550nm Laser Source w/FC Connector |
| T1020 | FC/PC SOC Adapter |
| 915B | Carrying Case |

5890-SC INCLUDES:

| | |
|----------|---|
| 560XL | Optical Power Meter |
| 570XL-SC | 850/1300nm LED Source w/SC Connector |
| 580XL-SC | 1310/1550nm Laser Source w/SC Connector |
| 1062 | FC/PC SOC Adapter |
| 915B | Carrying Case |

5890-ST INCLUDES:

| | |
|----------|---------------------------------------|
| 560XL | Optical Power Meter |
| 570XL-ST | 850/1300nm LED Source w/ST Connector |
| 580XL-ST | 1310/1550nm LED Source w/ST Connector |
| T1030 | ST/PC SOC Adapter |
| 915B | Carrying Case |

180XL VFL

- Continuous wave output mode for steady fault location
- Find breaks to 7km
- Blinking output mode increases viewing contrast
- Easy-to-use quick interface fits all 2.5mm connector interfaces (FC, SC, ST)
- 1.0mW output power
- Class 2 Operation
- Ergonomic rotary switch permits easy one-handed operation
- Rugged, compact and splash-proof aluminum design
- Two AA batteries provide 80 hours continuous operation
- 1.25mm adapter available for LC and MU connectors (UPC 03579)
- Nylon storage case included



OPTICAL SPECIFICATIONS:

| | |
|------------------------------|--|
| Wavelength: | 650nm +/-10nm |
| Emitter Type: | Fabry Perot |
| Output Power: | ≤ 0dBm |
| Laser Classification: | Class 2 |
| Range: | 7km |
| Modes of Operation: | CW and 2Hz Modulation |
| Method of Display Operation: | Red/Green LED |
| Fiber Type: | Singlemode, Multimode |
| Connector Interface: | 2.5mm Universal, Optional 1.25mm adapter |

ENVIRONMENTAL SPECIFICATIONS:

| | |
|------------------------|---|
| Battery: | AA (2 included) |
| Battery Life: | 80 Hours with 3.9Wh Batteries |
| Weight: | 0.26lbs, (120g) (not including batteries) |
| Dimensions: | 7.08" x 0.91" Dia. (180 x 23mm Dia.) |
| Operating Temperature: | -10°C to +45°C |
| Storage Temperature: | -40°C to +70°C |

SNAP ON CONNECTOR (SOC) FOR FIBER OPTIC POWER METER

Snap On Connectors (SOC) are used on the 560XL Fiber Optic Power Meter. The Snap On Connectors configure the optical power meter for various optical connectors. Contact Tempo for other available adapters.



UNIVERSAL CONNECTOR INTERFACE (UCI) FOR LASER SOURCES

User will need to purchase a Universal Connector Interface (UCI) adapter for use of the instrument. Please specify the desired connector adapter type when ordering. Contact Tempo for other available adapters.



CONNECTOR CLEANING TOOLS

948 CONNECTOR REEL CLEANER

The Reel Cleaner is an all-in-one connector cleaning tool. A complete self-contained unit requiring no additional components to clean fiber optic connectors. Recommended for cleaning FC, SC and ST connectors. To clean a connector, the user opens the shutter by gripping the lever and then sliding the connector end face along the exposed cleaning surface while gripping the lever.



946 ADAPTER CLEANING WANDS

Adapter wands are a convenient, economical and disposable way to clean and maintain fiber optic interfaces and bulkhead adapters. Incorporating the same lint-free material as the all-in-one Connector Reel Cleaner, cleaning wands are effective in removing contaminants from hard-to-reach connector end face ferrule alignment sleeves. Ten cleaning wands come in each package.



XL fiberTOOLS™ SERIES

ORDERING INFORMATION

| CAT. NO. | DESCRIPTION |
|----------------|--|
| 180XL | VISUAL FAULT LOCATOR |
| 1.25MM ADAPTER | 1.25MM ADAPTER FOR LC AND MU CONNECTORS |
| 560XL | FIBER OPTIC POWER METER |
| 567XL | FIBER OPTIC POWER METER SI, (SOC) |
| 568XL | FIBER OPTIC POWER METER, SOC-HP INGAAS |
| 570XL-FC | 850/1300NM LED SOURCE W/FC INTERFACE |
| 570XL-SC | 850/1300NM LED SOURCE W/SC INTERFACE |
| 570XL-ST | 850/1300NM LED SOURCE W/ST INTERFACE |
| 573XL | 650NM LED SOURCE W/ST INTERFACE |
| 573XL UNIV | 650NM LED SOURCE W/UCI INTERFACE |
| 577XL M90 | 850NM LED SOURCE WITH M90 LAUNCH |
| 580XL-FC | 1310/1550NM LASER SOURCE W/FC INTERFACE |
| 580XL-SC | 1310/1550NM LASER SOURCE W/SC INTERFACE |
| 580XL-ST | 1310/1550NM LASER SOURCE W/ST INTERFACE |
| 5670-FC | MULTIMODE FIBER OPTIC TEST SET W/FC INTERFACE |
| 5670-SC | MULTIMODE FIBER OPTIC TEST SET W/SC INTERFACE |
| 5670-ST | MULTIMODE FIBER OPTIC TEST SET W/ST INTERFACE |
| 5680-FC | SINGLEMODE FIBER OPTIC TEST SET W/FC INTERFACE |

| CAT. NO. | DESCRIPTION |
|-----------|--|
| 5680-SC | SINGLEMODE FIBER OPTIC TEST SET W/SC INTERFACE |
| 5680-ST | SINGLEMODE FIBER OPTIC TEST SET W/ST INTERFACE |
| 5890-FC | MULTIMODE AND SINGLEMODE FIBER OPTIC TEST SET W/FC INTERFACE |
| 5890-SC | MULTIMODE AND SINGLEMODE FIBER OPTIC TEST SET W/SC INTERFACE |
| 5890-ST | MULTIMODE AND SINGLEMODE FIBER OPTIC TEST SET W/ST INTERFACE |
| APC-108 | FC/PC UCI ADAPTER |
| AST-108 | ST/PC UCI ADAPTER |
| ASC-108 | SC/PC UCI ADAPTER |
| 948 | CONNECTOR REEL CLEANER CLEANING SYSTEM |
| 946 | 2.5 MM CLEANING WANDS |
| T1062 | SC/PC SOC ADAPTER |
| T1020 | FC/PC SOC ADAPTER |
| T1030 | ST/PC SOC ADAPTER |
| T1030-POF | ST/PC SOC ADAPTER POF |
| T1025 | 2.5MM SOC ADAPTER |
| T1026 | 1.25MM SOC ADAPTER |
| T10LC | LC SOC ADAPTER |
| T1038 | T-29504 SOC ADAPTER |
| T1087 | SMA SOC ADAPTER |
| T10E2 | E2000 SOC ADAPTER |
| T10ZP | VERSALINK SOC ADAPTER |

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