FIBER TOOLS

XL *fiberTOOLS*™ SERIES

PROFESSIONAL FIBER OPTIC INSTRUMENTS

TEMPO COMMUNICATIONS

TempoCom.com

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:	SOC
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 exsposure high power (greater than +23dBm) to less than 30 minutes.; +25 to -27dBm (980nm only)
Linearity at: (1310nm and 1550nm)	+25dBm to +22dBm ±1.0dB +22dBm to +18dBm ±0.5dB +18dBm to +10dBm ±0.2dB +10dBm to -30dBm ±0.1dB
Absolute Accuracy:	±0.25dB at calibration conditions
Wavelength Dependence:	975 to 985nm 0.025dB/nm 1270 to 1330nm 0.0033dB/nm 1500 to 1625nm 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:	SOC
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

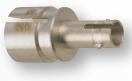
SNAP ON CONNECTOR (SOC) FOR FIBER OPTIC POWER METER

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.

FC

T1020

ST



T1030

SC

1062

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.

FC

APC-108

SC

ASC-108

ST

AST-108

CONNECTOR CLEANING TOOLS

948 CONNECTOR REEL CLEANER

The Reel Cleaner is an all-in-one connector cleaning tool. A complete selfcontained 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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TEMPO COMMUNICATIONS

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