FIBER TOOLS

XL *fiberTOOLS*™ SERIES

SPECIALIZED LAUNCH SOURCES AND POWER METERS



TEMPO COMMUNICATIONS

TempoCom.com

XL fiberTOOLS™ SERIES OVERVIEW

INSTRUMENTS DESIGNED FOR FIBER OPTIC CABLE TESTING.

The Special Launch Condition Sources and Optical Power Meter XL fiberTOOLS™ are designed for the professional to perform installation and maintenance measurements on both Plastic & Glass fiber optic networks.
The instrument family consists of Stabilized Light Sources with stringent Launch Conditions and a large area detector OPM for the Avionics, Defense Industries and Research Laboratories.



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:	650nm, 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!

Calibration conditions require using Diamond SA connectors.
Calibrations at 850nm require the source to be 850nm +/-0.2nm.



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

- Easy to use
- Long battery life - approx. 24 hours
- Stable calibrated output
- 650nm wavelength
- Continuous wave and modulated output
- ST or SOC interface
- User selectable auto shut-off
- Rugged and splash-proof
- Economically priced

XL fiberTOOLS™ SERIES OVERVIEW



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



577XL AS100 850nm LED SOURCE WITH AS100 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



578XL M90 1300NM LED SOURCE WITH M90 LAUNCH CONDITION (62.5/125µM FIBER)

- Easy to use
- Long battery life - approx. 24 hours
- Stable calibrated output
- 1300nm wavelength
- Continuous wave and modulated output
- User selectable auto shut-off
- Rugged and splash-proof
- UCI Adapter options available (options are available)

XL SERIES LED SOURCES

	573XL	577XL	578XL
Nominal	650nm	850nm	1300nm
Range (nm)	630 - 670	840 - 880	1270 - 1345
Spectral width (Typical)	40nm	45nm	150nm
Stability, 1 hour	±0.05dB	±0.05dB	±0.05dB
POWER OUTPUT			
200/230µm SI MM fiber	-15dBm ***		-
100/140µm GI MM fiber	-	-20dBm**(AS100)	-20dBm
62.5/125µm GI MM fiber**	-	-20dBm** (M90)	-20dBm** (M90)
50/125µm GI MM fiber	-		-21dBm
9/125µm SM fiber	-	-	-38dBm
Power output uncertainty	±0.5dB	±0.5dB	±0.5dB
Connector interface	SOC or ST	Universal connector interface	
Functions	MOD: Modulated output mode (270Hz, 1kHz, 2kHz) CW: Continuous Wave output mode Freq: selectable modulation frequency		
Modulation frequencies	270Hz, 1kHz, and 2kHz (±0.5%) using switch inside battery compartment		
Power requirements	Two AA-size alkaline batteries		
Battery life	> 24 hours		
ENVIRONMENT			
Operating Temperature	-15°C to 55°C		
Storage Temperature	-35°C to 70°C		
Humidity, Non-Condensing	0% to 95%		
Dimensions	7.2 x 14.2 x 3.5cm (2.8 x 5.6 x 1.4in)		
Weight	215g (7.6oz)		

For best AS100 performance:
850nm uses OFS fiber part number BF04436
1300nm uses OFS fiber part number F85336
All connections to use ceramic ferrules

* Within specified operating environment of 20°C to 25°C
** Calibrated launch level, equilibrium modal distribution
*** Calibrated launch level

ACCESSORIES

CONNECTOR CLEANING TOOLS

948 CONNECTOR REEL CLEANER

The Opti-Clean reel cleaner is an essential tool to clean fiber optic connectors. It is the best dry method for cleaning fiber optic termini such as SC, LC, FC, ST, E2000 and other common connectors.

- Lint free cleaning tape
- Cleans the Entire Ferrule End Face
- Antistatic design
- Effective and efficient ferrule end face cleaning
- Easy to replace fiber spools available



2.5 AND 1.25mm SWABS

The precision cleaning swabs are used to clean bulkhead ferrules and inside mating sleeves. They are available in 2.5mm and 1.25mm versions. Single use only and sold in packs of 100.

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ACCESSORIES CONT.

ORDERING INFORMATION:

CAT. NO.	DESCRIPTION
REEL-CLN	Opti-Clean Reel Cleaner
REEL-CLN-SP	Opti-Clean Reel Cleaner Replacement Spool
1.25 SWAB	1.25mm Cleaning Swab (100 pack)
2.5 SWAB	2.5mm Cleaning Swab (100 pack)

SPECIFICATIONS:

	OPTI-CLEAN REEL CLEANER	REPLACEMENT SPOOL
Cleaning Count	> 600 times	> 600 times
Size	130 x 88 x 32mm	104 x 60 x 30mm
Weight	0.14kg	0.08kg

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/C

ST



ATS-108

XL fiberTOOLS™ SERIES ORDERING INFORMATION

CAT. NO.	DESCRIPTION
567XL	FIBER OPTIC POWER METER SI, (SOC)
573XL	650nm LED SOURCE W/ST INTERFACE
573XL UNIV	650nm LED SOURCE W/SOC INTERFACE
577XL M90	850nm LED SOURCE WITH M90 LAUNCH
578XL M90	1300nm LED SOURCE WITH M90 LAUNCH
577XL AS100	850nm LED SOURCE WITH AS100 LAUNCH
ATS-108	ST/PC UCI ADAPTER
ASC-108/C	SC/PC UCI ADAPTER
APC-108	FC/PC UCI ADAPTER
REEL-CLN	OPTI-CLEAN REEL CLEANER
REEL-CLN-SP	OPTI-CLEAN REEL CLEANER REPLACEMENT SPOOL

CAT. NO.	DESCRIPTION
1.25 SWAB	1.25MM CLEANING SWAB (100 PACK)
2.5 SWAB	2.5MM CLEANING SWAB (100 PACK)
T1062	SC/PC SOC ADAPTER
T1020	FC/PC SOC ADAPTER
T1030	ST/PC SOC ADAPTER
T1030-POF	ST/PC SOC ADAPTER POF
T1026	1.25MM SOC ADAPTER
T10LC	LC SOC ADAPTER
T1038	T-29504 SOC ADAPTER
T10ZP	VERSALINK SOC ADAPTER
CAL CERT	Calibration Certificate

*All specifications are subject to change without notice.

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