

Measuring equipment



Fiber optic measurements and optical inspections are indispensable in the context of quality assurance and error tracing. Our measurement systems especially for harsh environments characterised in particular by a high flexibility at the transmitter side.

Adapter passive

Order No.: see chart

Includes adapter system which accommodates all standard fiber optic connectors.

Connector	Order No.	
ST (BFOC)	ZXST-TX0	
FSMA	ZSMA-TX0	
F05	ZF05-TX0	
HP	ZHP-TX0	
HP	ZHPD-TX0	
FCPC	ZFCPC-TX0	

Optical power meter with digital display

Order No.: see chart

Use this meter to determine the power of a light source (LED or Laser) or to measure the attenuation of a fiber optic cable when used in conjunction with a stabilized light source. Micro-processor technology allows you to measure two wave lengths and display results in μW or dBm. Automatic zero adjustment during power-on sequence. Includes adapter system which accommodates all standard fiber optic connectors.

Order information

Please order separately the corresponding connector adapter and reference cable for the FO connectors.

Opt. detector Silicon PIN diode

Detector surface 2.65 x 2.65 mm

Opt. connector removable adapter, screw-on

Display -50.0 to $+3$ dBm


Optical power meter Wavelength	Order No.
660 / 850 nm	ZXXX-TM0
1300 / 1550 nm	ZXXX-TM0_1300
520 / 660 / 850 / 940 nm	ZXXX-TM0-4W



Adapter active

Order No.: see chart

The interchangeable adapter system accommodates a wide variety of fiber optic connectors. The active adapters are available with different wavelengths.

Connector	Order No.	
ST (BFOC)	ZXST-TS0-660	
FSMA	ZSMA-TS0-660	
F05	ZF05-TS0-660	
HP	ZHP-TS0-650	
HP	ZHPD-TS0-650	

Further types on demand.

Optical transmitter Wavelength depends on the adapter

Order No.: see chart

Basic device with BNC adapter for connection of various fiber optic plug adapters. Plug adapters with wavelengths of 650 nm, 660 nm and 850 nm can be supplied. The part numbers below show adapters for a wavelength of 660 nm as an example.

Order information

Please order separately the corresponding connector adapter and reference cable for the FO connectors.

For further information please visit www.leoni-fiber-optics.com

Optical transmitter Wavelength	Order No.
520 to 940 nm	ZXXX-TS0
1300 nm	ZXXX-TS0-1300
1550 nm	on demand

Note for measuring POF with 2.2 mm fiber jacket diameter without connector

The ends of the POF to be measured must be cut cleanly (e.g. using the ZXXX-TD0 POF fiber cutter). The SMA 2.2 mm connector SSMA-SV0-02-0020 must be fitted to the prepared fiber jacket ends in such a way that fiber end face is in line with the ferrule. The "assembled" POF can now be measured with the measuring device (with FSMA adapter) and the connectors can subsequently be removed again.

Microscope

Order No.: ZXXX-TF0-V1

Magnification 100 times

The tools commonly used to assess the quality of the polished fiber endfaces of POF (plastic optical fiber) are hand microscopes providing 100 times enlargement. It is not unusual for users to show signs of tiring when using such microscopes over prolonged periods, especially in mass production.

A camera-based microscope now provides a remedy. The newly developed device is suited to all common POF connectors. The interchangeable adapter is the same as the one used for the attenuation measurement tool. This microscope can enlarge up to 200 times. The product supplied also comprises a small monitor as well as the power supply connector. The device is suited for use both in mass production and on-site.



Golden fiber

Order No.: see chart

Length: 1 m

Version: Pin – Pin,
Pin – Socket

POF reference cable,
2 polished MOST pin or socket contacts

Connector	Order No.
ST (BFOC) Pin – Pin	KMIP-MIP17001M
FSMA Pin – Socket	KMIP-MIS17001M

Measurement kit

Order No.: see chart

With transmitter, power meter and different adapter available.

Measurement kit includes

Order No.	Description
page 50	Optical power meter with digital display
page 50	Optical transmitter, basic device with BNC adapter
page 50	Adapter active
page 50	Adapter passive
page 49	2 power supplies for worldwide use
page 7	Reference cable

Connector	Order No.
ST (BFOC)	ZXST-KM0
FSMA	ZSMA-KM0
F05	ZF05-KM0
HP	ZXHP-KM

Termination kit



↑
K1 + K2
↓

Termination kit for FSMA connectors PCF

Order No.: **ZSMA-KW0**

The following connectors can be assembled with this device:

- SSMA-SW0-02-0010** Simplex connector FSMA for PCF-cable 2.2 mm
- SSMA-SW0-02-0020** Simplex connector FSMA for PCF-cable 3.0 mm

Please refer to the table below for contents and cable choice. The cleave tool and the microscope adapter are the only parts in which the K1 and K2 termination kits differ.

Order No.	Description
ZSMA-TW0	Cleave tool – FSMA PCF
ZSMA-AF0-V1	Microscope adapter

Termination kit for ST connectors PCF

Order No.: **ZXST-KW0**

The following connectors can be assembled with this device:

- SXST-SW0-02-0010** Simplex connector ST for PCF-cable 2.2 mm
- SXST-SW0-02-0020** Simplex connector ST for PCF-cable 2.5 mm
- SXST-SW0-02-0030** Simplex connector ST for PCF-cable 3.0 mm

Termination kit includes

Order No.	Description
Z004-TA0-0,5-2,2	Stripper for 230 µm PCF-fiber
ZXXX-TN0	Kevlar scissor
ZXST-TW0	Cleave tool – PCF ST
00405402	Fiber container
ZXX-TL0	Card cleaner
ZXX-TF0-V1	Microscope 100 ×
ZXST-AF0-V1	Adapter for microscope ST connector



K3



K4

Termination kit for F05/F07 connectors PCF

Order No.: **ZF0507-KC0**

The following connectors can be assembled with this device:

- SF05-SC0-08-0010** Simplex connector F05 for PCF-cable 2.2 mm
Compatible to TOCP 151 QK
- SF07-DC0-08-0010** Duplex connector F07 for PCF-cable 2.2 mm

Termination kit includes

Order No.	Description
Z004-TA0-0,5-2,2	Stripper for 230 µm PCF-fiber
ZXXX-TN0	Kevlar scissor
ZF0507-CC0-REN	Crimp plier for F05/F07 plug – PCF
ZXST-TW0	Cleave tool – PCF ST
00405402	Fiber container
ZXX-TL0	Card cleaner
ZXX-TF0-V1	Microscope 100 ×
ZXST-AF0-V1	Adapter for microscope F05 connector

Termination kit for HP connectors PCF

Order No.: **ZXHP-KW0**

The following connectors can be assembled with this device:

- SXHP-SC0-32-0010** Simplex connector HP for PCF cable 2.2 mm
Compatible to HP HFBR 4521 and V-Pin 200S
- SXHP-DC0-32-0010** Duplex housing with two simplex connectors

Termination kit includes

Order No.	Description
Z004-TA0-0.5-2.2	Stripper for 230 µm PCF-fiber
ZXXX-TN0	Kevlar scissor
ZXHP-CC0	Crimp plier for HP Connectors V-Pin PCF
ZXHP-TW0	Cleave tool – PCF HP
00405402	Fiber container
ZXX-TL0	Card cleaner
ZXX-TF0-V1	Microscope 100 ×
ZXHP-AF0-V1	Adapter for microscope