PROMAX

OTDR
FOR OPTICAL FIBRE

OPTICAL REFLECTOMETERS FOR 850, 1300, 1310, 1550 AND 1625 nm
UP TO 8 GB OF STORAGE CAPACITY FOR MEASUREMENT DATA

www.promaxelectronics.com

PROLITE-53B

SINGLE & AND MULTIMODE OTDR (850, 1300, 1310, 1550 nm) WITH VISUAL FAULT LOCATOR (VFL) AND 10 H OF AUTONOMY

Includes optical power meter (OPM) and Ethernet remote control

The **PROLITE-53B** ORDRs allow performing automatic or manual tests and feature smart, multifunctional analysis.

Their ergonomic design allows users to easily hold them thanks to its handle. The 8 GB internal memory allow to store data that can be copied and processed in the PC to generate reports and analysis over the measurements. It allows connecting external storage USB devices.

The **PROLITE-53B** introduces exclusive features for an OTDR, such as the ability of controlling the device via an external USB keyboard and mouse.

OPTICAL POWER METER

REMOTE CONTROL

WAVELENGTHS
850, 1300 nm (MM) and 1310, 1550 nm (SM) (±20 nm)

FIBER TYPE
Single mode (SM) and Multi mode (MM)

INTERNAL MEMORY
8 GB

PC CONNECTION
USB port, Ethernet RJ45

✓ Selectable margins:	1.3 to 240 km (SM) / 1.3 to 40 km (MM)
✓ Event dead zone:	0.8 m
✓ Attenuation dead zones:	4,5 m / 4.5 m / 4 m / 4 m
✓ Pulse width:	5 ns to 20 µs (SM) / 5 ns to 2.5 µs
✓ Screen:	Touchscren 8” LCD
✓ Battery operation time:	10 h

PROLITE-51B

SINGLE MODE OTDR (1310/1550/1625 nm) WITH VISUAL FAULT LOCATOR (VFL) AND 10 H OF AUTONOMY

WAVELENGTHS
1310, 1550 and 1625 nm (±20 nm)

FIBER TYPE
Single mode

INTERNAL MEMORY
2 GB (expandable via USB *pendrives*)

PC CONNECTION
USB port, Ethernet RJ45

✓ Selectable margins:	1.3 / 2.5 / 8 / 10 / 20 / 40 / 80 / 160 / 240 km
✓ Event dead zone:	0.8 m
✓ Attenuation dead zone:	4 m
✓ Pulse width:	5 ns / 10 ns / 30 ns / 100 ns / 300 ns 1 µs / 2.5 µs / 10 µs / 20 µs

PROLITE-50B / 52

COMPACT AND SINGLE MODE (1310,1550,1625 nm) WITH 8 H OF BATTERY OPERATION TIME

The perfect tool for field work

They are the perfect tool for the characterisation of optical fibers, from a single cable up to a large network evaluation.

It is perfect to use both in field and laboratory, as well in fiber manufacturing and network deployment or maintenance.

They allow storing and transferring the distribution courves to a PC. The included software allows it analysis and including them in reports and printing out them.

WAVELENGTHS
1310, 1550 nm (PROLITE-50B) 1625 nm (PROLITE-52)

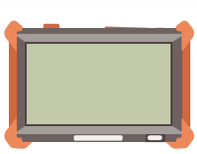
FIBER TYPE
Single mode

INTERNAL MEMORY
1000 records storage capacity

PC CONNECTION
USB port

✓ Selectable margins:	0.3 / 1.3 / 2.5 / 5 / 10 / 20 / 40 / 80 / 160 / 240 km y 120 km (PROLITE-52)
✓ Event dead zone:	2.5 m (PROLITE-50B), 0.8 m (PROLITE-52)
✓ Attenuation dead zone:	8 m (PROLITE-50B), 4.5 m (PROLITE-52)
✓ Pulse width (PL-50B):	30 / 100 / 300 ns; 1 / 2.5 µs
✓ Pulse width (PL-52):	5 / 10 / 30 / 100 / 300 ns 1 / 2.5 / 10 / 20 µs
✓ PON module:	PROLITE-52

ASK YOUR DEALER FOR PROMAX LAUNCH CABLES ESSENTIAL TO WORK WITH OTDRs




	PROLITE-53B	PROLITE-52	PROLITE-51B	PROLITE-50B
WAVELENGTHS (±20 nm)	850/1300 (MM), 1310/1550 (SM)	1625 nm	1310 / 1550 / 1625 nm	1310 / 1550 nm
DYNAMIC RANGE	23 / 28 / 38 / 36 dB	37 dB	43 / 42 / 42 dB	28 / 28 dB
FIBER TYPE	SM / MM	SM	SM	SM
VISUAL FAULT LOCATOR	Included	-	Included	-
SELECTABLE MARGINS	From 1.3 to 240 km	From 0,3 to 240 km	From 1.3 to 240 km	From 0.3 to 240 km
STORAGE	8 GB	1000 records	2 GB	1000 records
SCREEN	Touch screen 8” TFT	3.5” TFT LCD	Touch screen 8” TFT	3.5” TFT LCD
CONNECTIVITY	2xUSB, 1xRJ45	USB	2xUSB, 1xRJ45	USB
BATTERY OPERATION TIME	10 h	8 h	10 h	8 h

Optical reflectometers - **OTDR**

SPECIFICATIONS	PROLITE-50B	PROLITE-51B	PROLITE-52	PROLITE-53B
WAVELENGTHS (±20 nm)	1310 / 1550 nm	1310 / 1550 / 1625 nm	1625 nm	850/1300 (MM), 1310/1550 (SM)
DYNAMIC RANGE	28 / 28 dB	43 / 42 / 42 dB	37 dB	23 / 28 / 38 / 36 dB
FIBER TYPE	Singlemode	Singlemode	Singlemode	Singlemode (SM), Multimode (MM)
DEAD ZONE EDZ (event) ADZ (attenuation)	 2.5 m 8 m	 0.8 m 4 m	 1.5 m 10 m	 1 m 4.5 / 4.5 / 4 / 4 m
ACCURACY Distance measurement Attenuation detection Reflection detection	 ±(1m x $5x10^{-5}$ x Dist. + sample space) ±0.05 dB / dB ±4 dB	 ±(1 m x $5x10^{-5}$ x Dist. + sample space) ±0.05 dB / dB ±4 dB	 ±(1m x $5x10^{-5}$ x Dist. + sample space) ±0.05 dB / dB ±4 dB	 ±(1m x 10^{-5} x Dist. + sample space) ±0.05 dB / dB ±4 dB
CONNECTOR TYPE	SC/APC Interchangeable SC, FC, ST, LC	SC/APC Interchangeable SC, FC, ST, LC	SC/APC Interchangeable SC, FC, ST, LC	SC/APC (SM), SC/UPC (MM) Interchangeable SC, FC, ST, LC
VISUAL FAULT LOCATOR (VFL) Output power Modulation Detection distance	 - - -	 ≥ -3 dBm 1 Hz 5 km	 - - -	 ≥ -3 dBm 1 Hz 5 km
SELECTABLE MARGINS Single mode fibre Multi mode fibre	 0.3 / 1.3 / 2.5 / 5 / 10 20 / 40 / 80 / 160 / 240 km -	 1.3 / 2.5 / 8 / 10 / 20 / 40 / 80 160 / 240 km -	 0.3 / 1.3 / 2.5 / 5 / 10 / 20 / 40 80 / 120 / 160 / 240 km -	 1.3 / 2,5 / 5 / 10 / 20 / 40 / 80 160 / 240 km 1.3 / 2,5 / 5 / 10 / 20 / 40 km
PULSE WIDTH Single mode fibre Multi mode fibre	 30 / 100 / 300 ns 1 µs / 2.5 µs -	 5 / 10 / 30 / 100 / 300 ns 1 / 2,5 / 10 / 20 µs -	 5 / 10 / 12 / 30 /100 / 275 / 300 ns 1 / 2,5 / 10 / 20 µs -	 5 / 10 / 30 / 100 / 300 ns 1 / 2.5 / 10 / 20 µs 5 / 10 / 30 ns - 1 / 2.5 µs
STORAGE CAPACITY	1000 records	2 GB	1000 records	8 GB
SCREEN	TFT LCD 3.5”	7” touch screen TFT	TFT LCD 3.5”	TFT Táctil 8”
AVERAGE TIME	15 / 30 / 60 / 120 / 180 s	Quick / 15 / 30 / 45 60 / 90 / 120 / 180 s	15 / 30 / 60 / 120 / 180 s	Quick / 15 / 30 / 45 60 / 90 / 120 / 180 s
OPTICAL POWER METER	-	-	-	Included
CONNECTIVITY	USB	2x USB, 1x 10/100 Mbps RJ45	USB	2x USB, 1x 10/100 Mbps RJ45
POWER SUPPLY	Rechargeable battery or AC adapter			
BATTERY OPERATION TIME	8 h	10 h	8 h	10 h
DIMENSIONS AND WEIGHT	110 x 220 x 70 mm / 1 kg	220 x 110 x 70 mm / 2,1 kg	110 x 220 x 70 mm / 1 kg	235 x 159 x 75 mm / 1.5 kg

LAUNCH CABLES	AF-016	AF-017	AF-018
FIBER TYPE	Singlemode	Multimode	Singlemode
LENGTH	150 m	150 m	1000 m
CONNECTORS	SC/SC	SC/SC	SC/SC
WAVELENGTH	From 1310 to 1650 nm	From 850 nm to 1300 nm	From 1310 to 1650 nm
ATTENUATION	-0.3 dB/km max.	-0.9 dB/km max.	-0.3 dB/km max.
CONNECTOR LIFETIME	> 1000 mating cycles	> 1000 mating cycles	> 1000 mating cycles

Francesc Moragas, 71 * 08907 L'HOSPITALET DE LLOBREGAT * BARCELONA * SPAIN
Tel: (+34) 93 184 77 02 * e-mail:promax@promaxelectronics.com * www.promaxelectronics.com