DATASHEET

Optical Multi Meter

OMC INDUSTRY CO.LIMTED

Optical Multi Meter: BOU350

2 in one

Features:

OPM,OLS in one device

Measure optical attenuation

Energy save mode

OPM with 850/1300/1310/1490/1550/1625nm

Reference value setting for every single wavelength Power autonomy of 100 hours

One-year warranty and Three-year recommended calibration interval
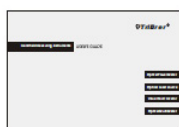
GENERAL SPECIFICATIONS

Light Source	M3M8	S3S5	S3S4S5
Wavelength (nm)	850/1300	1310/1550	1310/1490/1550
Output Power	> - 6dBm @ 1310nm/1490nm/1550nm/1625nm > -10 dBm @ 850nm/1300nm		
Modulation	270Hz, 1KHz, 2KHz		
Connector	FC/PC		
Power Meter			
Accuracy *	+/-0.2dB		
Calibrated Wavelengths	850nm / 1300nm / 1310nm / 1490nm / 1550nm / 1625nm		
Tone Detector	YES		
Reference Value Set	YES		
Connector	FC & 2.5mm UPP (SC, ST optional)		
Auto Power Off	No operation in 10 minutes (can be canceled), Low battery energy		
Battery Charge	Yes		
Power Supply	2 * AA batteries or AC/DC adapter		

at 20+/-3, CW, with FC connector, -10dBm

Accessories-Standard

Carrying bag

Manual

Calibration certificate

Packing box

Accessories-Optional

FC adapter

SC adapter

ST adapter

FC male to LC female adapter

AC/DC adapter

Details

Size(H*W*D)	160mm * 75mm * 32mm
Weight	About 190g
Storage Temperature	-20 -- +60 ℃ , < 90%RH
Operating Temperature	-10 -- +50 ℃ , < 90%RH

Order Index

BOU350-X

Power Meter Module

BOU350T = OPM(+6~ -70dBm)

BOU350C = OPM(+26~ -50dBm)

Laser Souce Module

M3M8 = 850/1300nm

S3S5 = 1310/1550nm

S3S4S5 = 1310/1490/1550nm

Optical Multi Meter: FHM2X-01

Description

OMC provides high precision optical multimeter. FHM2 Series Optical Multimeter integrates a stable optical laser source and a precise optical power meter.

The optical laser source unit launches the laser whose wavelengths are at 1310/1490/1550nm or 1310/1550nm (according to the model). The optical power meter unit can recognize the wavelength automatically. FHM2 Series Optical Multimeter offers a large storage capacity; With the assorted software, user can generate a report or manage the test report easily.

Features:

Auto wavelength recognition

Data storage up to 999 items

USB interface and PC associated software available

GENERAL SPECIFICATIONS

Type	FHM2A01	FHM2B01
Power Meter Parameters:		
Calibration Wavelength	850/1300/1310/1490/1550/1625nm	
Connector	interchangeable FC/SC (ST optional)	
Data Storage	999 items	
Ref.Value	Yes	
Display Units	dB/dBm/mW/uW	
Display Precision	0.01dB	
Accuracy	±5%±1nW	
Wavelength Recognition	1310/1490/1550 (input power≥-40dBm)	
Tone Detection	270Hz/1KHz/2KHz (input power≥-40dBm)	
Measuring Range	-70 to +10dBm	-50 to +26dBm
Laser Source Parameters:		
Output Wavelength	1310/1550nm	
Connector	fixed FC/PC (interchangeable FC/SC/ST customized)	
Modulation Frequencies	270Hz/1KHz/2KHz	
Output Power	-5dBm±0.5dB	
Stability Long-term (8h)	±0.1dB@1310/1550nm	
Stability Short-term(15min)	±0.05dB@1310/1550nm	
Wavelength Recognizing Code	Yes	
Auto Power off	Yes	

Optical Multi Meter: FHM2X-01

General Parameters:

Power Supply	2pcs*NiHM 1.2V, 2000mAh; AC/DC Adapter
PC Interface	USB
Battery Life	>100 hours (laser off)
Storage Temperature	-20℃~+70℃
Operating Temperature	-10℃~+50℃
Relative Humidity	<90% (Non-condensing)
Dimension	168mmL×76mmW×43mmH
Weight	310g
Standard Accessories:	
FC adapter, SC adapter, 2*rechargeable batteries, AC/DC adapter, 3*ceramic sleeves, USB cable, carrying bag, CD disk, user manual, test report	
Optional Accessories:	
ST adapter	

Optical Multi Meter: FHM2X-02

Description

OMC provides high precision optical multimeter. FHM2 Series Optical Multimeter integrates a stable optical laser source and a precise optical power meter.

The optical laser source unit launches the laser whose wavelengths are at 1310/1490/1550nm or 1310/1550nm (according to the model). The optical power meter unit can recognize the wavelength automatically. FHM2 Series Optical Multimeter offers a large storage capacity; With the assorted software, user can generate a report or manage the test report easily.

Features:

Auto wavelength recognition
Data storage up to 999 items
USB interface and PC associated software available

GENERAL SPECIFICATIONS

Type	FHM2A02	FHM2B02
Power Meter Parameters:		
Calibration Wavelength	850/1300/1310/1490/1550/1625nm	
Connector	interchangeable FC/SC (ST optional)	
Data Storage	999 items	
Ref.Value	Yes	
Display Units	dB/dBm/mW/uW	
Display Precision	0.01dB	
Accuracy	±5%±1nW	
Wavelength Recognition	1310/1490/1550 (input power≥-40dBm)	
Tone Detection	270Hz/1KHz/2KHz (input power≥-40dBm)	
Measuring Range	-70 to +10dBm	-50 to +26dBm
Laser Source Parameters:		
Output Wavelength	1310/1490/1550nm	
Connector	FC/PC, SC/PC	
Modulation Frequencies	270Hz/1KHz/2KHz	
Output Power	0dBm±0.5dB	
Stability Long-term (8h)	±0.1dB@1310/1550nm; ±0.2dB@1490nm	
Stability Short-term(15min)	±0.05dB@1310/1550nm; ±0.1dB@1490nm	
Wavelength Recognizing Code	Yes	
Auto Power off	Yes	

Optical Multi Meter: FHM2X-02

General Parameters:

Power Supply	2pcs*NiHM 1.2V, 2000mAh; AC/DC Adaptor
PC Interface	USB
Battery Life	>100 hours (laser off)
Storage Temperature	-20℃~+70℃
Operating Temperature	-10℃~+50℃
Relative Humidity	<90% (Non-condensing)
Dimension	168mmL×76mmW×43mmH
Weight	310g
Standard Accessories:	
FC adapter, SC adapter, 2*rechargeable batteries, AC/DC adapter, 3*ceramic sleeves, USB cable, carrying bag, CD disk, user manual, test report	
Optional Accessories:	
ST adapter (model: N000500), 1.25mm PD adapter, 2.5mm PD adapter	
Customization:	
APC	

![OMC FTTH logo] **OLS+OPM Suit: OPM**

Description

OPM101A is a full-function optical power meter,it aims at fiber network installation, fiber network engineering acceptance and fiber network maintenance. Combined usage with OLS201A optical light source, it offers a quick and accurate testing solution on both SM and MM fibers. Compared with usual power meters, the OPM101A has more great functions/ features of automatic wavelength identification and switching, as well as intelligent backlight control. Also this type has features of good appearance, good touch feeling and considerate humanization design.

Features:

Wave ID—Automatic wavelength identification and switching (when used with OLS201A handheld light source);

Frequency ID/Tone detection---Automatic frequency identification;

Data storage function, up to 1000 test records;

USB communication port to download the saved testing records;

Reference power level can be set up and stored;

Auto-off function can be activated or deactivated;

AA alkaline and AC adapter for power supply;

Low battery indication.

Specification

Part No.	OPM101A-L	OPM101A-H
Calibrated（nm）	850,1300,1310,1490,1550,1625nm	
Detector type	InGaAs	
Measurement Range（dBm）	-70 ~ +6	-50 ~ +26
Detector Area	Ø 1.0mm	
Uncertainty (dB)	±0.15（3.5%）	
linearity (dB)	±0.02	
Display resolution(dB)	0.01	
Frequency ID（Hz）	270，330，1K，2K	
Wave ID（nm）	1310，1490，1550，1625, 850,1300	
Date storage capacity	1000	
Communication Port	USB	
Optical Connector type	FC,SC,ST interchangeable(LC can be required)	
Alkaline battery	3XAA，1.5V	
Power Supply Adaptor(V)	8.4	
Battery Operating time (h)	200	
Operation Temperature(℃)	-10 ~ +60	
Storage Temperature(℃)	-25 ~ +70	
Outline size（mm）	200 X90 X50	
Weight（g）	285	

Standard Accessories

No.	name	qty
1	Optical Power Meter	1
2	User Manual	1
3	USB cable	1
4	CD	1
5	1.5V AA battery	3
6	Cotton Swabs	1
7	Carry Bag	1

OLS+OPM Suit: OLS

Description

OLS201A Optical Light Source is designed to match OPM101A,it not only can provide stable out power, but also it combined usage with OPM101A,they can realize automatic wavelength identification and automatic frequency identification .Also the OLS201A has features of good appearance, good touch feeling and considerate humanization design.

Features:

Wave ID and frequency ID information can be transmitted when used with - OPM101A Optical Power Meter;
Max 5 wavelength can built-in
Tone generation, 270HZ,330HZ,1KHZ,2KHZ;
AA alkaline and AC adapter for power supply;

Specification

Part No.	OLS201A
Operating wavelength（nm）	1310/1550 (others specify on requests, Max wavelength is 5)
Applicable fiber	SM ,MM
Laser type	FP-LD(others specify on requests)
Maximum Output Power（dBm）	-5（can be adjustable, others specify）
Adjustable step size（dBm）	＜0.5 (adjustable between -5~-12dBm)
Stability(dB，15min，20℃)	±0.1
Stability(dB，30min，20℃)	±0.05
Modulation（Hz）	CW， 270， 330， 1K， 2K
Fiber Port	FC/PC or FC,SC,ST interchangeable
Alkaline Battery	3XAA，1.5V
Power Supply Adaptor(V)	8.4
Battery Operating time(h)	45
Operation Temperature(℃)	-10 ~ +60
Storage Temperature(℃)	-25 ~ +70
Outline size（mm）	200 X90 X50
Weight(g)	285

Standard Accessories

No.	name	qty
1	Optical Power Meter	1
2	User Manual	1
3	USB cable	1
4	CD	1
5	1.5V AA battery	3
6	Cotton Swabs	1
7	Carry Bag	1