

PM-212

Pocket optical power meter USB probe



Description:

The PM 212 optical power meter is a small, pocket size low cost item. The small size does not prevent the optical meter fulfilling all technical requirements for field equipment. The tester can be used as pocket power meter or as USB probe, part of testing workstation. It can be placed within rack mount ODF's with the display on the top or on the side. The Li-Pol rechargeable battery ensures long term working time with a minimum life time of 2 years. The unit is able to store 100 measurements which can be uploaded to PC and managed with SmartProtocol software or Data Exporter.



PM-212

Features:

- Two functions: Portable power meter
USB probe – accessory of Testing Workplace
- Small size, light weight
- Backlight option
- SM and MM fiber testing
- Six working wavelengths
- Absolute and Relative optical power measurement
- Internal two level memory, capacity up to 100 measurements
- SmartProtocol SW – Test reports creating
- Data Exporter – data download to Excel sheet
- USB port for:
 - USB probe - full control via simple commands
 - charging the battery
 - data upload to PC
 - firmware upgrade
- Build-in Li-Pol rechargeable battery
- Battery status indicator, Auto Off

Standard accessories:

- Power meter
- Universal 2.5 mm adapter (TE-ADP-250)
- Power charging adapter
- Traceable calibration certificate
- USB cable
- SmartProtocol SW
- Soft case
- Hard plastic case TE-HC-01, 265 x 270 x 90 mm



TE-HC-01

Specifications:

Photodetector	1 mm InGaAs
Working wavelengths	850, 1300, 1310, 1490, 1550, 1625 nm
Uncertainty	± 5%
Resolution	0.01
Dynamic range	-60 dBm to +10 dBm -53 dBm to +10 dBm
Dimensions	24 x 47 x 71 mm
Weight	Less than 90 g
Temperature	operating -10 to +50 °C storage -40 to +70 °C
Humidity (non cond.)	0 – 95%
Operating temperature	-10 to +50 °C
Battery working time	> 75 hrs
Battery life time	> 2 years
Compliant with RoHS-requirements (2002/95/EG, 27.01.2003)	

Note:

can be customized
1310, 1550 nm @ -20dBm

1300, 1310, 1490, 1550, 1625 nm
850 nm
including 2.5 mm universal adaptor
battery loaded

between battery charging

Options - changeable input adapters:



Other types available on request:

- TE-ADP-SC SC adaptor
- TE-ADP-FC FC adaptor
- TE-ADP-ST ST adaptor
- TE-ADP-DIN DIN adaptor
- TE-ADP-SMA SMA adaptor
- TE-ADP-LC LC adaptor
- TE-ADP-MU MU adaptor

Ordering code: **PM-212 + (options)**
PM-212-L + (options)

standard tester
tester with Backlight option

Application:

- Optical networks testing
- Test reports creating

SmartProtocol compatible (refer to TEQ_02-07_EN-SmartProtocol)

Table of Measured Values

Fiber	Loss (dB) 1310 nm			Loss (dB) 1550 nm			Note
	A-B	B-A	Avg	A-B	B-A	Avg	
1	4.32	4.24	4.28	3.48	3.42	3.45	PASS
2	4.43	4.41	4.42	3.59	3.51	3.54	PASS
3	4.59	4.47	4.53	3.26	3.22	3.24	PASS
4	4.12	4.21	4.17	3.28	3.18	3.23	PASS
5	4.52	4.54	4.53	3.33	3.31	3.32	PASS
6	4.82	4.81	4.81	3.69	3.72	3.70	FAIL
7	4.15	4.25	4.20	3.24	3.26	3.25	PASS
8	4.26	4.26	4.26	3.41	3.41	3.41	PASS
9	4.38	4.35	4.37	3.27	3.27	3.27	PASS
10	4.68	4.46	4.58	3.75	3.51	3.63	FAIL
11	4.11	4.13	4.12	3.27	3.18	3.23	PASS
12	4.37	4.24	4.30	3.59	3.48	3.54	PASS
Avg	4.40	4.37	4.38	3.43	3.37	3.40	
Max	4.82	4.81	4.81	3.75	3.72	3.70	
Min	4.11	4.13	4.12	3.24	3.18	3.23	

DataExporter compatible (refer to TEQ_08-13_EN-DataExporter)

Export settings dialog:

- Export device details
- Export table header

Decimal separator: , .

Data Table:

	A	B	C	D	E
1	OFT820	OFT8200008			
2	Cable	Fiber	WaveLength	dBm	
3	1	1	1310	-5.1	
4	1	2	1310	-5.24	
5	1	3	1310	-4.95	
6	1	4	1310	-4.74	
7	1	5	1310	-5.01	
8	1	6	1310	-6.36	
9	1	7	1310	-5.98	
10	1	8	1310	-6.05	
11					
12					
13					