

PM-212

Pocket optical power meter USB probe

NEW!
**THE SMALLEST
IN THE MARKET**

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
- 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)**

standard tester

Application:

- Optical networks testing
- Test reports creating

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

Date: 19.6.2007
Operator: Magda Rychnovská
Company: OPTOKON Co., Ltd., spol. s r.o.

Trace: OPTOKON Cable House - Znojmo
Route: OPTOKON Cable House - Jihlava
End A: OPTOKON End B: Jihlava
Power Meter: PM420 PM4207090 Fiber Length: 8000 m
No. of Splices: 10 Splice Loss: 0.1 dB
No. of Connectors: 2 Connector Loss: 0.5 dB
No. of Passive Devices: 0 Passive Device: 3.6 dB
Fiber Attenuation 1310 nm: 0.35 dB/km Loss Limit 1310 nm: 4.80 dB
Fiber Attenuation 1550 nm: 0.20 dB/km Loss Limit 1550 nm: 3.60 dB

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	3.56	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	3.15	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	4.28	4.28	4.28	3.41	3.41	3.41	PASS
9	4.38	4.35	4.37	3.27	3.27	3.27	PASS
10	4.68	4.48	4.58	3.75	3.51	3.63	FAIL
11	4.11	4.13	4.12	3.27	3.16	3.22	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	3.16	3.22	

Data Selection

Wavelength: 1310 nm

Recorded Data

Position	Value
1/4	0.48
1/5	3.99
1/6	3.19
1/10	0.48
1/11	3.99
1/12	3.19
1/16	0.48
1/17	3.99
1/18	3.19
1/22	0.48
1/23	3.99

Direction A->B

Position	Value
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Direction B->A

Position	Value
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File Record Data Data Selection Generate Protocol Setup Help

Loss Testing Report

Operator: Magda Rychnovská Date: 19.6.2007

Company: OPTOKON Co., Ltd., spol. s r.o.

Trace: OPTOKON Cable House - Znojmo

Route: OPTOKON Cable House - Jihlava

End A: OPTOKON End B: Jihlava

Power Meter: Fiber Length [m]: 8000

No. of Splices: 10 Splice Loss [dB]: 0.1

No. of Connectors: 2 Connector Loss [dB]: 0.5

No. of Passive Devices: 0 Passive Device [dB]: 3.6

Wavelength: 1310 [nm] Fiber Attenuation [dB/km]: 0.35

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

OPTOKON data exporter 1.1

Options

Connecting to device

Refresh ports

Serial port: COM4

Connected device: OFT820 OFT8200008

Export settings

Export device details

Export table header

Decimal separator: , .

Export checked

Export to Excel

Export to Clipboard

F10

	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					

List1 / List2 / List3

List 1 / 3 Východzie STD * Celkom