

PM-212-SI3

Pocket optical power meter USB probe

NEW!
MM fiber testing

Description:

The PM-212-SI3 optical power meter is a small, pocket size low cost tester. 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. The tester is equipped with 3.6 mm Si photodetector, working area 13 mm² designed for measurement of multimode fibers. The input interface is equipped with changeable ASP adapters, which allow connection of wide range multimode connectors. The standard tester is designed for measurement at 850/980 nm, extended wavelength range 850/880/910/940 nm is available.

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 evaluated with SmartProtocol software or Data Exporter.

Features:

- Two functions:
 - Portable power meter
 - USB probe – accessory of Testing Workplace
- Small size, light weight
- MM fibers testing, 850/980 or 850/880/910/940 nm
- Easy changeable connectors for wide applications
- Absolute and Relative optical power measurement
- Internal two level memory structure
- 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 pack
- Battery status indicator, Auto Off



PM-212-SI3

Standard accessories:

- Power meter
- Universal 2.5 mm input adapter (TE-ASP-250)
- Power charging adapter
- Traceable calibration certificate
- USB cable
- SmartProtocol SW
- Soft case
- Hard plastic case TE-HC-01



TE-HC-01
Hard carry case (265 x 270 x 90 mm)

Application:

- Optical networks testing
- Test reports creating

Specifications:

Photodetector	3.6 mm Si (13 mm ²)
Working wavelengths	850, 980 nm
	850, 880, 910, 940 nm
Uncertainty	± 5%
Resolution	0.01
Dynamic range	-65 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	> 35 hrs
Battery life time	> 2 years
Compliant with RoHS-requirements (2002/95/EG, 27.01.2003)	

Note:

Standard
Extended λ range

including 2.5 mm universal adaptor
battery loaded

between battery charging

Options - changeable input adapters:



*) Other types available on request:

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

Ordering code:

PM-212-SI3

PM-212-SI3-(85/88/91/94)

standard MM tester

850,880,910,940 working λ

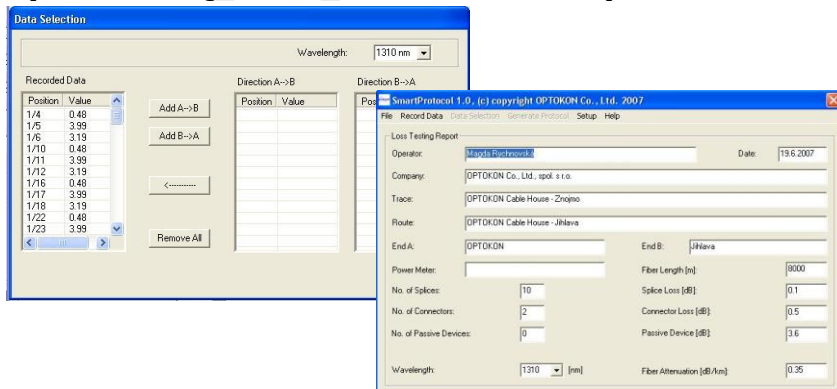
SmartProtocol compatible (refer to TEQ_02-07_EN-SmartProtocol)

19.6.2007
Operator: Magda Pyskorska
Company: OPTOKON Co., Ltd. spol. s r.o.
WWW: WWW.OPTOKON.CO.LTD.

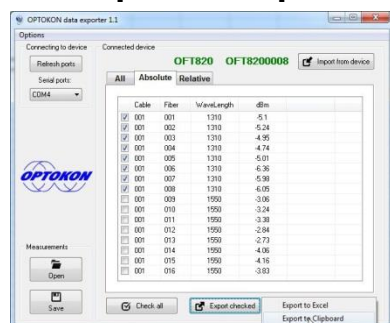
Loss Testing Report

Trace: OPTOKON Cable House - Znojmo
Mode: OPTOKON End B: Jihlava
Power Meter: PM420 PM4207000 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 Loss: 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

Fiber	Loss (dB) 1310 nm			Loss (dB) 1550 nm			Note
	A-B	B-A	Avg	A-B	B-A	Avg	
1	4.32	4.42	4.37	3.48	3.42	3.45	PASS
2	4.42	4.41	4.42	3.58	3.51	3.54	PASS
3	4.59	4.49	4.53	3.26	3.25	3.24	PASS
4	4.52	4.21	4.37	3.26	3.16	3.21	PASS
5	4.52	4.54	4.53	3.33	3.31	3.32	PASS
6	4.62	4.61	4.61	3.58	3.52	3.55	FAIL
7	4.55	4.56	4.55	3.24	3.26	3.25	PASS
8	4.58	4.58	4.58	3.41	3.41	3.41	PASS
9	4.58	4.59	4.57	3.27	3.27	3.27	PASS
10	4.68	4.49	4.59	3.75	3.51	3.63	FAIL
11	4.11	4.13	4.12	3.27	3.18	3.22	PASS
12	4.37	4.36	4.36	3.59	3.48	3.53	PASS
Avg	4.45	4.39	4.42	3.43	3.37	3.40	
Min	4.11	4.11	4.11	3.24	3.18	3.21	
Max	4.68	4.68	4.68	3.75	3.75	3.75	



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



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	-5.36	
9	1	7	1310	-5.98	
10	1	8	1310	-6.05	
11					
12					
13					