

PM-215-G(L)

Pocket optical power meter USB probe



Description:

The PM-215-G(L) 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-215-06-G

Features:

- Two functions: Portable power meter
USB probe – accessory of Testing Workplace
- Small size, light weight
- Rotate display – switchable function (right/left-hander use)
- 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
- Changeable input adaptors
- USB cable
- Li-Pol battery
- Power charging adapter 5 V DC
- Calibration certificate
- Hard carrying case
- Smart Protocol PC software
- Data Exporter PC software

Options: soft case

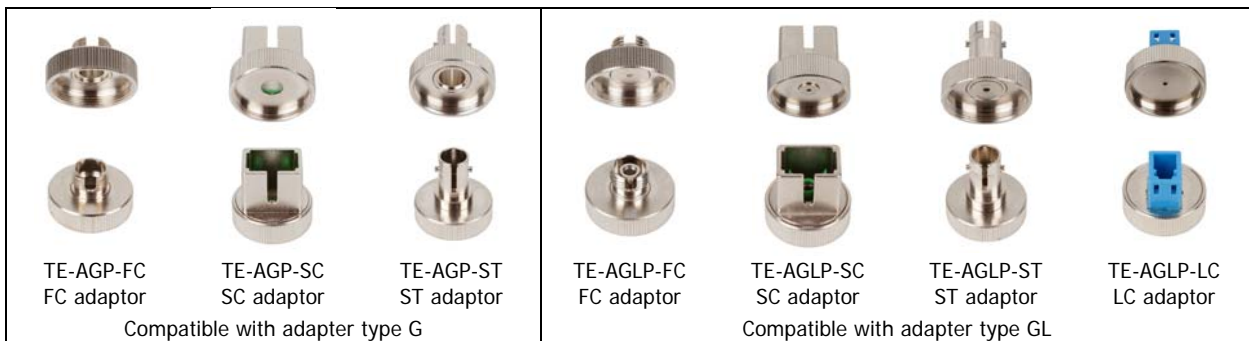


TE-HC-215-G



TE-EVA-215
130x32x80 mm

Input adaptors:



Technical specifications:

General specifications	Value				Unit	Note
Dimensions	95 x 47 x 27				mm	with TE-AGP-250 adapter
Weight	150				g	with battery
Operation temperature	-10 to +60				°C	charging battery 0 to +45
Storage temperature	-40 to +70				°C	Li-Pol battery -10 to +45
Humidity (non-condensing)	0 to 95				%	
Power Meter	PM-215-06	PM-215-16	PM-215-26	PM-215-36		
Dynamic range	-70 to +6	-60 to +16	-50 to +26	-40 to +36	dBm	
Detector	InGaAs		Si			
Wavelength range	850 to 1700		400 to 1100		nm	
Working wavelengths	850, 1300, 1310, 1490, 1550, 1625		650, 850, 980		nm	can be customized
Accuracy	± 5				%	1310, 1550 nm at -20 dBm
Resolution	0.01				dB	
Data storage	up to 100				-	number of measurements
Display units	dBm, dB, W				-	

Compliant with RoHS-requirements (2002/95/EG, 27.01.2003)

Ordering code:

PM-215	-	XX	-	XX	-	(SI)	/(L)
		Dynamic range		Adaptor type		Photodetector	options
		06 -70 to +6 dBm		G 2.5 ¹ , FC, SC, ST		- InGaAs	L backlight
		16 -60 to +16 dBm		GL LC, FC, SC, ST		SI Si	
		26 -50 to +26 dBm					
		36 -40 to +36 dBm					

Note: 1) G-type without additional adaptor is suitable for ferrule 2.5 mm



Adaptor type G



Adaptor type GL



PM-215-06-G front view

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

Date: 19.6.2007
Operator: Magda Hrybníková
Company: OPTOKON

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Loss Testing Report

Trace: OPTOKON Cable House - Znojmo
Route: OPTOKON Cable House - Jihlava
End A: OPTOKON End B: Jihlava
Power Meter: PM-215/PM420700 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 @ 1310 nm			Loss @ 1550 nm			Note
	A-B	B-A	Avg	A-B	B-A	Avg	
1	4.32	4.28	4.30	3.08	3.42	3.45	PASS
2	4.42	4.41	4.42	3.56	3.57	3.56	PASS
3	4.52	4.41	4.53	3.28	3.22	3.24	PASS
4	4.12	4.21	4.17	3.28	3.18	3.23	PASS
5	4.52	4.48	4.53	3.33	3.31	3.32	PASS
6	4.82	4.81	4.81	3.68	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	3.61	3.41	3.41	PASS
9	4.38	4.39	4.37	3.27	3.27	3.27	PASS
10	4.68	4.68	4.68	3.75	3.51	3.63	FAIL
11	4.11	4.13	4.12	3.27	3.19	3.23	PASS
12	4.37	4.28	4.30	3.69	3.48	3.54	PASS
Avg	4.40	4.33	4.36	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	

Data Selection

Wavelength: 1310 nm

Recorded Data

Position	Value	Direction A->B	Position	Value	Direction B->A
1/4	0.40				
1/5	3.39				
1/6	3.19				
1/10	0.48				
1/11	3.39				
1/12	3.19				
1/16	0.48				
1/17	3.39				
1/18	3.19				
1/22	0.48				
1/23	3.39				

Buttons: Add A->B, Add B->A, Remove All, OK

SmartProtocol 1.0, (c) copyright OPTOKON

File Record Data Data Selection Generate Protocol Setup Help

Loss Testing Report

Operator: Magda Hrybníková Date: 19.6.2007

Company: OPTOKON

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