

光功率计系列 Optical Power Meter Series

1. 描述 (Description):

博科斯光激光功率计提供多款产品型号，可灵活配置，满足不同测量需求。功率测量覆盖 1nW~10mW、10 μ W~10W 等不同范围，适配 400~1100、900~1650、1100~2200nm 多个波段，适合用于各种激光的功率测量；功率分辨率达 0.001dB，确保高精度。具备数据分析功能，搭配上位机软件，可数字或图像显示，直观呈现测量结果与趋势，为科研及工业应用提供精准支持。

Boxoptronics' Optical laser power meter offers a range of product models covers power measurement ranges from 1nW~10mW, 10 μ W~10W, and more, supporting multiple wavelength bands such as 400~1100nm, 900~1650nm, and 1100~2200nm with power resolution of 0.001dB, suitable for power measurement of various lasers and featuring data analysis capabilities, which display results digitally or graphically when paired with host software, suitable for scientific research and industrial.

2. 特性 (Features):

- 高动态范围 High dynamic range;
- 高精度 High precision;
- 手持和台式 Handheld and Desktop;
- 多通道 Multi-channel.

3. 应用 (Applications):

- 光器件测试 Optical device testing;
- 激光功率测试 Laser power testing;
- 光学实验 Optical experiments.

4. 光电特性 (Electro-Optical Characteristics):



参数 Parameters	单位 Unit	参数 Values	
探测器型号 Detector model		PMS-4011-2040	PMS-9016-6010
探测器型号 Detector type	-	Si Photodiode	InGaAs Photodiode
是否积分球 Integrating sphere	-	Yes	No
工作波长 Operating wavelength	nm	400~1100	900~1650
通光孔直径 Optical aperture	mm	Φ12	Φ12
功率测量范围 Measurement range	dBm	-20~+40(10 μ W~10W)	-60~+10(1nW~10mW)
输入光耦合配件 Input accessories	-	Bare fiber adapter(BFA) or FC fiber adapter(FCA)	
探头线缆长度 Detector cable length	m	1.5	1.5
探头通信端口 Communication port	-	DB9 PIN	DB9 PIN
尺寸 Dimensions	mm	65×67.5×74	75×93×47.5
探测器型号 Detector model		PMS-9016-2043	PMS-1122-2040
探测器型号 Detector type	-	InGaAs Photodiode	InGaAs Photodiode
是否积分球 Integrating sphere	-	Yes	Yes
工作波长 Operating wavelength	nm	900~1650	1100~2200

透光孔直径 Optical aperture	mm	Φ12	Φ12
功率测量范围 Measurement range	dBm	-20~+43(10μW~20W)	-20~+40(10μW~10W)
输入光耦合配件 Input accessories	-	Bare fiber adapter(BFA) or FC fiber adapter(FCA)	
探头线缆长度 Detector cable length	m	1.5	1.5
探头通信端口 Communication port	-	DB9 PIN	DB9 PIN
尺寸 Dimensions	mm	65×67.5×74	65×67.5×74
功率表头(主机)型号 Power meter(host) model		PM-MC-4-B5	PM-SC-1-HD
封装类型 Package type	-	Benchtop	Handheld
通道数 Channel number	-	4	1
测量分辨率 Measurement resolution	dB	0.001	0.001
测量不确定度 Measurement uncertainty	%	±5	±5
数据采集间隔 Data sampling interval	s	0.1~1(Configurable)	0.1~1(Configurable)
功率统计分析 Power statistical analysis	-	当前值; 最小值; 最大值; 平均值; 峰峰值; 标准差值 Current; Min.; Max.; Aver.; Peak-peak; Standard deviation	
控制方式 Control method	-	Touch screen/DB9 Female	Touch screen/DB9 Female
功率计主机尺寸 Power meter host size	mm	285(W)×200(D)×150(H)	130(W)×37(D)×90(H)
模拟电压输出范围 Analog voltage output range	V	0~2.5	0~2.5
模拟电压输出 Analog voltage output port	-	BNC	SMA
上位机通信端口 Communication port	-	USB	USB
工作温度 Operating temperature	-	-5~+55°C	-5~+55°C
湿度范围 Humidity range		0~70%	0~70%
供电 Power supply	-	AC 100~240V, <15W	AC 100~240V, <15W
输入光耦合配件 Input accessories		BFA	FCA
配器类型 Accessory type	-	Bare fiber adapter(BFA)	FC fiber adapter(FCA)
固定方式 Fixation method	-	磁吸 Magnetic attraction	内螺纹 Internal thread
可夹持光纤直径 Gripping fiber diameter	μm	250; 400; 1000	FC, Wide key
兼容的功率计探头 Compatible detector	mm	PMS All series	PMS All series
尺寸 Dimensions	mm	50×30.7×25.8	30(Diameter)

5. 订购信息(information):

主机型号 Host model	最大通道数 Max. Chan.	封装形式 Package type	探头机型 Detector model	工作波长(nm) Wavelength	功率范围(dBm) Power range	光口形式 Optical port
XX-XX	-X	-XX	XXX	-XXXX	-XXXX	-XX
PM-MC	4	B5: Benchtop	PMS	4011:400~1100	2040: -20~+40	FC
PM-SC	1	HD: Handheld		9016:900~1650 1122:1100~2200	2043: -20~+43 6010: -60~+10	BFA

e.g.:Host model is PM-MC-4-B5, and detector model is PMS-9016-2040-FC.