



M00001788

**Powermeter, SM, XGPON, +10dBm to -40dBm, 2x SC/APC + 1x VFL,
incl. AC adapter, Maunt**



Description

This power meter supports 10G-capable PON networks and is compatible with GPON and EPON networks. The power meter is used for insertion loss testing. In addition, the device has a pass-through mode for ONT/ONU verification. Besides being used for PON service activation, this powermeter from Maunt can be used to measure insertion loss (IL) of fibre-optic networks in the POP, in combination with an optical line terminal (OLT) light source or PON system module. The power meter features a loss test mode to take a reference for an accurate insertion loss measurement of the fibre optic under test.

PON technologies supported

	<i>Upstream</i>	<i>Downstream</i>
BPON (ITU-T G983.3)	1310	1490
GPON (ITU-T G984.2)	1310	1490
1G EPON (IEEE802.3)	1310	1490
XG(S)-PON (ITU-T G987.2)	1270	1578
TWDM NG-PON2 (ITU-T G989.2)	1524-1554	1596-1603
10G EPON (IEEE802.3)	1270	1577
RF overlay		1550
RFoG (ANSI/SCTE 1742010)	1310 or 1610	1550

FTTX specification

		<i>Spectrum passband (nm)</i>	<i>Powermeter range (dBm)</i>	<i>Calibrated wavelength (nm)</i>	<i>Max. total safe capacity</i>
ONT/ONU Upstream burst mode	1270nm	1260-1280	-10~+10	1270	16
	1310nm	1290-1330	-35~+8	1310	
	1524-	1330-1630 ^b	-10~+10	1534	
	1544nm				
	1550nm	1330-1630	-10~+10	1550	
OLT Downstream	1610nm	1330-1630 ^b	-10~+10	1610	17
	1490nm	1480-1500	-45~+10	1490	
	1550nm	1540-1560	-45~+20	1550	
	1577-	1573-1630	-45~+10	1578	20
	1578nm				
	1596-	1573-1630	-45~+10	1600	
	1603nm				
	1610nm	1573-1630	-45~+10	1610	

General specifications

ORL (dB)	40~50 ^{a c}
Pass-through Insertion Loss (dB)	1.5 ^a
Power loss (dB)	0.5 ^{a d}
Connector	SC/APC or adapted
Display resolution	0.01 dB
Units	dBm/dB/mW/nW (mW/nW auto-switch)
VFL	10mW, 2.5mm universal connector
Dimensions	38 x 95 x 168 mm
Weight	270 g
Operational temperature	-10 to +50°C < 95%RH
Storage temperature	-20 to +70°C < 95%RH

^a = Typical value @ 23±3°C, SC/APC connector

^b = 1555nm±5nm is excluded from the spectral passband for this powermeter

^c = At calibrated Wavelength.

^d = At input level 2 dBm, CW.