

# MPM1000

## Fiber Optic Power Meter



- 850, 1300 & 1550nm Germanium Detector
- Wide Dynamic Range
- dBm and dBrel (relative) measurement modes
- Automatic Power Down
- Power Down override during dBrel measurements
- Exceptional battery life
- Ruggedised waterproof housing to IP54
- 3 Year manufacturers warranty

### DESCRIPTION

The MPM1000 is an accurate optical power meter that can be used for optical loss testing of fibre optic cables. It has been pre-calibrated for absolute power levels with reference to 1mW (dBm) for 850nm, 1300nm and 1550 nm wavelengths using multi-mode cables. However, it can also be used in relative power mode and can therefore also be used on single-mode cables. The MPM1000 is accurate to  $\pm 5\%$  ( $\pm 0.3\text{dBm}$ ) and has a wide dynamic range of +5dBm to -60dBm with a resolution of 0.1dBm.

It is particularly suitable for the testing of LAN's, FDDI, and other multimode links whether inside or outside a building.

Although the MPM1000's main use is in fibre optic cable attenuation testing, other applications include fibre continuity testing, connector testing, and patch lead testing.

Battery status warning indicates low battery condition. An optical battery charger is available when using rechargeable batteries.

### SPECIFICATIONS

**Detector Type:**  
Germanium

**Wavelength:**  
850nm, 1300nm & 1550nm typical

**Measurement Range:**  
+5dBm to -60dBm

**Measurement Accuracy:**  
 $\pm 0.3\text{dBm}$  ( $\pm 5\%$ ) at -23dBm and +20°C  $\pm 3^\circ\text{C}$

**Measurement Resolution:**  
0.1dBm

**dBm and dBrel:**  
Yes

**Batteries:**  
2 x AA Alkaline Cells (NiMh on NiCad can be used)

**Battery Consumption:**  
20mA nominal  
**Power Input:**

Can operate and charge internal batteries using optional charger

**Optical Connector:**  
ST, FC or SC connector adaptors available

**Case Dimensions:**  
160mm x 83mm x 30mm

**Instrument Weight:**  
230g with battery

**Operational Temperature:**  
-15°C to +50°C (+5°F to +122°F)

**Operational Humidity:**  
95% at +40°C (+104°F)

**Storage Temperature:**  
-20°C to +70°C (-4°F to +158°F)

**ORDERING INFORMATION**

Item (Qty)	Order Code	Item (Qty)	Order Code
* MPM1000 Fiber Optic Power Meter	6111-529	Multimode Patch Cord with (62.5µm/125µm)	
* SC Connector or FC Connector or ST Connector required with body		FC / FC Connectors (3 metres)	22440-033
FC Connector Adaptor for Power Meter	6220-715	In-line gender changing adaptor with Single Mode ST connectors	22440-022
ST Connector Adaptor for Power Meter	6220-716	In-line gender changing adaptor with Single Mode SC connectors	22440-020
SC Connector Adaptor for Power Meter	6220-717	In-line gender changing adaptor with Single Mode / Multimode FC connectors	22440-003
<b>Included Accessories:</b>		In-line gender changing adaptor with Multimode ST connectors	22440-019
User Guide	6172-628	In-line gender changing adaptor with Multimode SC connectors	22440-021
Test & Carry Pouch	6220-714		
<b>Optional Accessories</b>			
Single Mode Patch Cord with FC / SC Connectors (3 metres)	22440-007	Bare Fiber adaptor SC connector	25970-034
Single Mode Patch Cord with FC / FC Connectors (3 metres)	22440-008	Bare Fiber adaptor FC connector	25970-035
Single Mode Patch Cord with FC / ST Connectors (3 metres)	22440-009	Bare Fiber adaptor ST connector	25970-036
Single Mode Patch Cord with ST / ST Connectors (3 metres)	22440-015		
Single Mode patch cord with ST / SC connectors (3 metres)	22440-027	UK DC Power Supply	27900-050
Single Mode Patch Cord with SC / SC Connectors (3 metres)	22440-016	USA DC Power Supply	27900-051
		EU DC Power Supply	27900-052
		Rechargeable Battery	25985-023
Multimode Patch Cord with (50µm/125µm) FC / FC Connectors (3 metres)	22440-010		
Multimode Patch Cord with (50µm/125µm) FC / ST Connectors (3 metres)	22440-011		
Multimode Patch Cord with (50µm/125µm) FC / SC Connectors (3 metres)	22440-012		
Multimode Patch Cord with (50µm/125µm) ST / ST Connectors (3 metres)	22440-013		
Multimode Patch Cord with (50µm/125µm) ST / SC Connectors (3 metres)	22440-014		
Multimode Patch Cord with (50µm/125µm) SC / SC Connectors (3 metres)	22440-017		
Multimode Patch Cord with (62.5µm/125µm) FC / ST Connectors (3 metres)	22440-028		
Multimode Patch Cord with (62.5µm/125µm) ST / ST Connectors (3 metres)	22440-029		
Multimode Patch Cord with (62.5µm/125µm) ST / SC Connectors (3 metres)	22440-030		
Multimode Patch Cord with (62.5µm/125µm) FC / SC Connectors (3 metres)	22440-031		
Multimode Patch Cord with (62.5µm/125µm) SC / SC Connectors (3 metres)	22440-032		

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 Registered to ISO 14001 Reg no. EMS 61597

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