

# TECHNICAL DATA SHEET



## Multimode Loss Test Set

The KD Optics range of Multimode power meters and LED sources are designed for the testing of LANs, FDDI, or other multimode links whether inside or outside a building. There is a power meter and LED source to suit every requirement. Every instrument comes with a carrying pouch or, if bought as a pair, a small ABS briefcase style carrying case is included. Although their main use is in cable attenuation testing, other applications include fibre continuity testing, connector testing, transmitter power testing etc.



**PM23 Optical Power Meter**

**LS20DV LED Source**

- Easy to Use
- Wide dynamic range
- dBRel inhibits power down
- Long battery life
- Special wavelengths available
- All adapter caps available
- Single or dual output sources
- Highly stable
- Temperature compensated
- Rugged
- Simple operation
- Backlit display

PM10, PM23 Series Power meter specifications

	PM10-660	PM10	PM10R-660	PM10R	PM23
Wavelength	660nm	850nm	660nm	850nm	850/1300/1550nm
Sensor Type	Silicon	Silicon	Silicon	Silicon	Germanium
dBrel	No	No	Yes		
Display	dBm only	dBm only	3 Digit LCD displays dBm, dB		
Measurement Range	+ 5 to – 60dBm				
Measurement Accuracy	± 5% at –23dBm				
Resolution	0.1dBm				
Optical Connector	Adapter caps for ST, SMA, FC/PC, SC, Diamond, FDDI etc.				
Power requirements	Alkaline PP3 giving 25 hours operation, auto power off after 20 minutes except in dBrel				
Temperature range	0 - 50°C				
Dimensions	152 x 83 x 33mm				

LS10, LS20 Series LED Light sources specifications

	LS10-660	LS10	LS11	LS20	LS20D
Wavelength	660nm	850nm	1300nm	850 and 1300nm	850 and 1300nm
Source Type	LED	LED	LED	Two LEDs	Two LEDs(single output)
Spectral Characteristics	660 ±30nm	850 ±30nm	1300 ±30nm	850 ±30nm 1300 ±30nm	850 ±30nm 1300 ±30nm
Visible Trace LED	In built 660nm Trace LED for fault finding, tracing etc. ('V' option)				
Spectral FWHM	Typical 50nm (850nm), 100nm (1300nm)				
Output Waveform	CW or internally chopped at 1kHz (270 Hz or 2kHz may be specified at time of ordering)				
Output Level	Typically > –20dBm into 62.5/125 Multimode fibre				
Output Stability	±0.1dB or less over 1 hour at 23°C				
Stabilisation Time	Typically 60 seconds from power up at 23°C				
Optical Connector	Fixed ST, SMA, FC/PC, SC, Diamond etc. (Specified at time of ordering)				
Power requirements	2 x AA rechargeable NiMH cells using external charger (supplied) gives typically 20 hours use. Alkaline cells may be used if rechargeable batteries are flat and mains is not available				
Temperature range	0 - 50°C				
Dimensions	152 x 83 x 33mm				

PM10, PM23 and LS20 Ordering Information

PM10X, PM10RX, PM23X  
 Add 'X' for Connector type  
 Add 'A' for rechargeable batteries and external charger  
 Add 'H' for High Power (CATV)  
 e.g. PM23ST specifies a PM23 with an ST connector  
 LS10X, LS11X, LS20X, LS20DX, LS20DVX  
 e.g. LS20DVST specifies a dual source, single output,  
 ST connector with visible trace option

PM10, PM23 and LS20 Optional accessories

Spare AC charger  
 Bare fibre adaptors  
 Test cables and patchcords  
 PM10, PM23 additional connector adaptor caps  
 Small carry case for 2 instruments and accessories  
 Large carry case for 3 instruments and accessories

PM10, PM23 and LS20 Standard accessories

Manual, Carrying pouch, AC charger  
 One year warranty

**Other Products from KD Optics:**

Singlemode Power meters and laser sources  
 Visible laser sources  
 Loss Test Sets  
 Optical attenuators  
 Optical Talk sets  
 Cooled laser sources  
 Optical data logging and Device alignment test sets  
 Thermo Electric Cooler (TEC) controllers  
 OTDRs, Fusion splicers

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