

MBR5 Multi-Output Backreflection Meter

KEY FEATURES

- Stable BR measurements at low values
- Up to 72 output channels
- IL and BR measurements
- Up to 4 internal lasers

APPLICATIONS

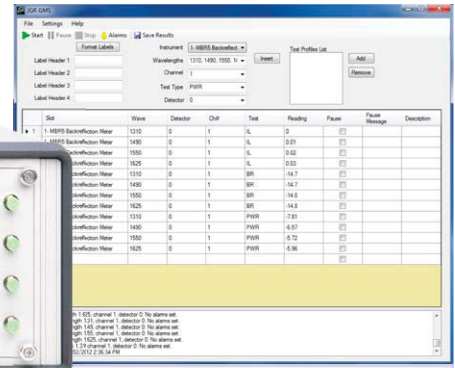
- Component testing
- Ribbon fiber testing
- Simultaneous testing with multiple connector types
- Incoming inspection
- QA testing

COMPLIANCE

- MM meets IEC 61280-4-1 Encircled Flux Standard
- UL/CSA 61010
- IEC 61010
- IEC 60825-1 Class 1
- FCC Part 15 (Class A)
- EN 61326 (Class A)

IN THE BOX

- MBR5 Meter
- AC power cord
- Calibration Certificate
- Calibrated Jumper
- Hybrid Test Jumper
- Detector Cap
- FC Detector Adapter
- MW3 Mandrel Wrap



GMS Software

PRODUCT DESCRIPTION

The MBR5 Multi-Output Backreflection Meter is an instrument developed with extremely stable optics for precise measurement of backreflection, insertion loss and power. Available with 4, 12, 24, 48 or 72 (MM) output channels, the MBR5 is a practical choice for both single fiber and ribbon fiber testing.

The MBR5 features up to four built-in laser sources at wavelengths of 850, 1310, 1490, 1550, 1625 and 1650 nm (depending on fiber type), and can be configured for singlemode or multi-mode measurement.

An intuitive display and keypad simplifies the collection and management of measurement data allowing quick access to the test results from various channels. The meter may be controlled through remote interface (GPIB, RS232, or USB*) or locally via the user-friendly front panel keypad and display.

The MBR5 achieves ultra-stable backreflection measurements at very low values. Accuracy is typically ± 0.4 dB and measurement sensitivity is to -80 dB. Insertion loss relative accuracy is ± 0.05 dB. In addition, the cavity option is particularly useful for ribbon connectors with large fiber counts. The MBR5 and GMS Software can be used with the SX8 switch. All our MBR5 meters come standard with our GMS Software.

The multi-mode MBR5 meets IEC-61280-4-1 Encircled Flux Standard.

*USB interface via-USB-DB9 adapter

ORDERING SCHEME

Single-Mode Version

MBR5-------09FA

OUTPUT CHANNELS		LASER 1		LASER 3		DETECTOR TYPE		DETECTOR	
4-channel	04	No Laser	0	No Laser	0	2 mm InGaAs	2	Front Panel Leave Blank	
12-channel	12	1310 nm	3	1550 nm	5	5 mm Ge	5	Remote Head	R
24-channel	24					Cavity	C		
48-channel	48								
		LASER 2		LASER 4					
		No Laser	0	No Laser	0				
		1490 nm	4	1625 nm	6				
				1650 nm	7				

- Up to four lasers may be selected for the single-mode version

Multimode Version

MBR5--8300-----

OUTPUT CHANNELS		DETECTOR TYPE		FIBER TYPE		DETECTOR	
4-channel	04	5 mm Ge	5	50/125 μ m	50	Front Panel Leave Blank	
12-channel	12	Cavity	C	62.5/125 μ m	62	Remote Head	R
24-channel	24						
48-channel	48						
72-channel	72						
		CONNECTOR TYPE					
		FC/APC					

- The standard multimode version contains two lasers at 850 and 1310nm. Other wavelengths are available upon request.

ADDITIONAL ACCESSORIES See Page 44.



CONTACT US

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SPECIFICATIONS

OPTICAL / ELECTRICAL SPECIFICATIONS		
Parameter	Specification	
	Single-mode	Multimode
Fiber Type (µm)	(9/125)	(50/125 or 62.5/125)
Encircled Flux Standard	N/A	IEC-61280-4-1
Operating Wavelengths (nm)	1310 / 1490 / 1550 / 1625 / 1650	850 / 1310
Backreflection Range (dB)	0 to -80	0 to -60
Backreflection Accuracy (dB) ^{1,2}	± 0.4	
Detector Type	2 mm InGaAs / 5mm Ge / Cavity	
Power Range (dBm)	0 to -80 / 0 to -60 / 0 to -40	
Absolute Power Accuracy (dB) ³	± 0.25	
Relative Power Accuracy (dB)	± 0.05 (< 5 dB loss) ± 0.15 (> 5 dB loss)	
Remote Interface	GPIB / RS232 / USB ⁴	
Input Voltage	100 - 240 V AC, 50 - 60 Hz	
Power Consumption (VA)	80 maximum	
Display	4 lines, 16 character per line, LCD	

¹ Add 0.1 dB to the spec for every 1dB below -60dB (single-mode).

² Add 0.1dB to the spec for every 1dB below -45dB (multimode).

³ Measured at -10 dBm.

⁴ USB interface via-USB-DB9 adapter.

MECHANICAL / ENVIRONMENTAL SPECIFICATIONS		
Parameter	Specification	
	Single-mode	Multimode
Unit Dimensions W x H x D (cm)	36 x 15 x 34	
Shipping Box Dimensions W x H x D (cm)	43 x 27 x 47	
Unit Weight (kg)	7	
Total Shipment Weight (kg)	8	
Operating Temperature (°C)	0 to 40	
Storage Temperature (°C)	-40 to 70	
Humidity (Non-condensing) (°C)	Maximum 95% RH from 0 to 40	

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