

# BR5 | Backreflection Meter



## Product Description

The BR5 Backreflection Meter is a user-friendly instrument developed with extremely stable optics for precise measurement of backreflection, insertion loss and power. The BR5 features up to four built-in laser sources at wavelengths of 850, 1300, 1310, 1490, 1550, 1625 or 1650 nm (depending on fiber type).

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 BR5 achieves ultra-stable backreflection measurements at very low values with accuracy typically at  $\pm 0.4$  dB and measurement sensitivity is to  $-80$ dB. Insertion loss relative accuracy is  $\pm 0.05$ dB. The BR5 can be used with our GMS software to help automate short and long term testing. All our BR5 meters come standard with our GMS Software at no additional cost. The multimode option of the BR5 meets IEC- 61280-4-1 Encircled Flux Standard.

\*USB interface via-USB-DB9 adapter

## KEY FEATURES

- Stable BR measurements at low values
- Up to 4 internal lasers
- BR range to  $-80$  dB
- User Friendly

## APPLICATIONS

- Component testing
- Connector and patchcord testing
- Incoming inspection
- QA testing

## COMPLIANCE

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

## IN THE BOX

- BR5 Meter
- AC power cord
- Calibration Certificate
- Calibrated Jumper
- Hybrid Test Jumper
- Detector Cap
- FC Detector Adapter
- MW3 Mandrel Wrap

## 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 / 1300
Backreflection Range (dB)	0 to -80	0 to -60
Backreflection Accuracy (dB) <sup>1,2</sup>	± 0.4	
Detector Type	2mm InGaAs / 5mm Ge	
Power Range (dBm)	0 to -80 / 0 to -60	
Absolute Power Accuracy (dB) <sup>3</sup>	± 0.25	
Insertion Loss Accuracy (dB)	± 0.05 (< 5 dB loss)	
	± 0.15 (> 5 dB loss)	
Remote Interface	GPIB / RS232 / USB <sup>4</sup>	
Input Voltage	100 - 240 V AC, 50 - 60 Hz	
Power Consumption (VA)	60 maximum	
Display	16 character LCD	

**Notes:**

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

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

<sup>3</sup> Measured at -10 dBm.

<sup>4</sup> SB interface via USB-DB9 adapter.

MECHANICAL / ENVIRONMENTAL SPECIFICATIONS	
Parameter	Specification
Unit Dimensions W x H x D (cm)	26 x 11 x 26
Shipping Box Dimensions W x H x D (cm)	37 x 25 x 38
Unit Weight (kg)	3
Total Shipment Weight (kg)	4
Operating Temperature (°C)	0 to 40
Storage Temperature (°C)	-40 to 60
Humidity (Non-condensing) (°C)	Maximum 95% RH from 0 to 40

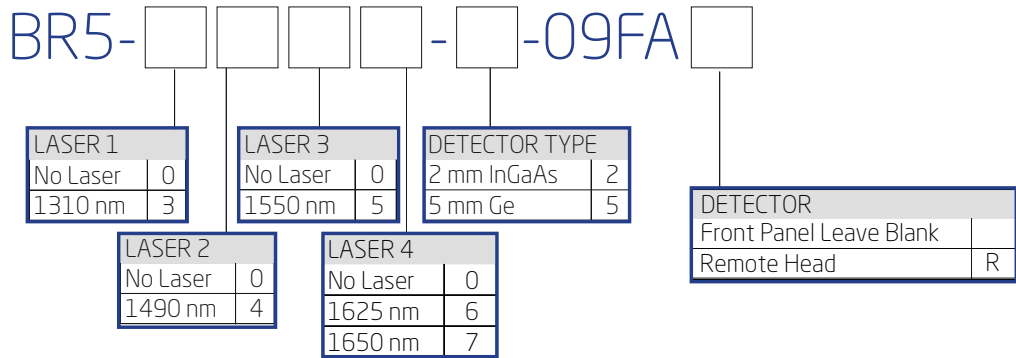
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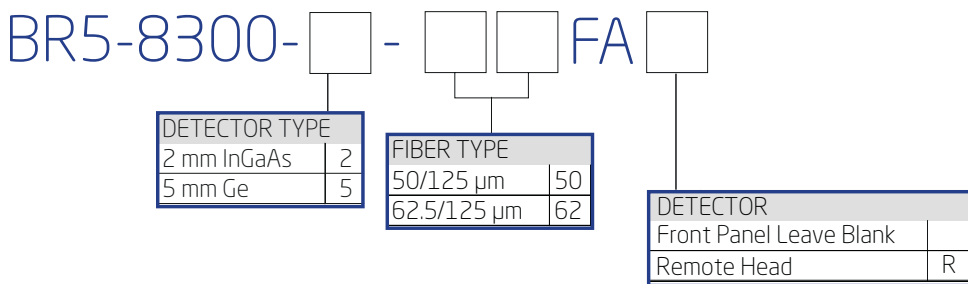
## Ordering Scheme

### Single-Mode Version



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

### Multimode Version



- The standard multimode version contains two lasers at 850 and 1300nm. Other wavelengths are available upon request.

Additional accessories See Page 44

