

# 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, 1310, 1490, 1550, 1625 or 1650 nm (depending on fiber type).

An intuitive display and keypad, with one-button access to BR and IL modes, simplifies the collection and management of measurement data. The meter may be controlled through remote interface (GPIB, RS232, or USB\*) or locally via the user-friendly front panel keypad and display. It is available in single-mode and multi-mode, the BR5 is ideal for measurements of connectors, components, and systems.

The BR5 achieves ultra-stable backreflection measurements at very low values. Accuracy is typically  $\pm 0.4$  dB and measurement sensitivity is to  $-80$  dB. Insertion loss relative accuracy is  $\pm 0.05$  dB. All our BR5 meters come standard with our GMS Software.

The multi-mode 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 / 1310
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	
Relative Power 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

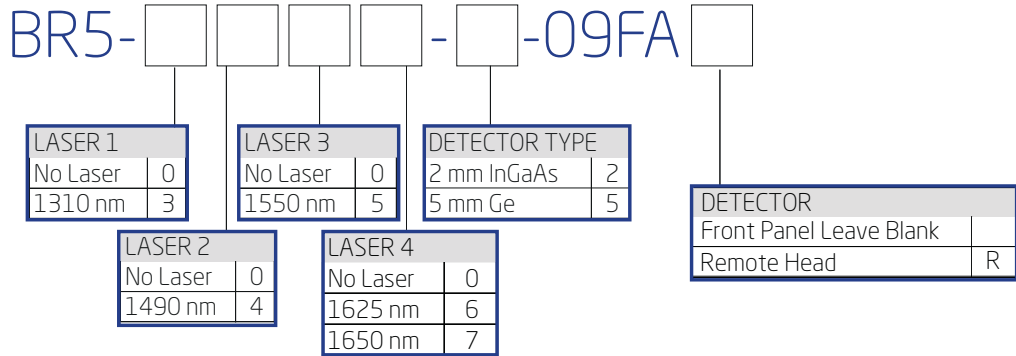
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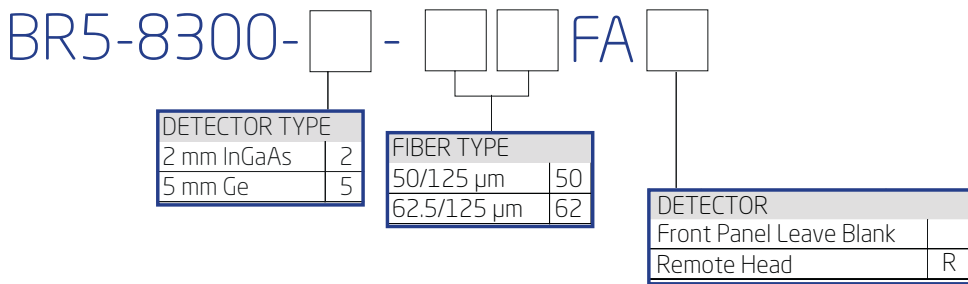
## Ordering Scheme

### 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 1310 nm. Other wavelengths are available upon request.

Additional accessories See Page 44

