backreflection meters

BR5

Backreflection Meter

KEY FEATURES

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



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. Available in single-mode and multimode, 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 ± 0.4 dB and measurement sensitivity is to -80 dB. Insertion loss relative accuracy is ± 0.05 dB.

APPLICATIONS

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

COMPLIANCE

- > UL/CSA 61010
- > IEC 61010
- > IEC 60825-1 Class 1
- > FCC Part 15 (Class A)
- > EN 61326 (Class A)

backreflection meters

SPECIFICATIONS

Optical/Electrical Specifications

Parameter	Specification	
	Single-mode	Multimode
Fiber Type	(9/125 μm)	(50/125 or 62.5/125 µm)
Operating Wavelengths	1310/1490/1550/1625/1650 ±10 nm	850/1310, ± 20 nm
Backreflection Range	0 to - 80 dB	0 to - 60 dB
Backreflection Accuracy ¹	± 0.4 dB	
Detector Type	InGaAs 2 mm; Ge 5 mm	
Power Range	0 to -80 dBm; 0 to -60 dBm	
Absolute Power Accuracy ²	± 0.25 dB	
Relative Power Accuracy	± 0.05 dB (< 5 dB loss) ± 0.15 dB (> 5 dB loss)	± 0.15 dB
Remote Interface	RS232 and GPIB	
Input Voltage	100 - 240 V AC, 50 - 60 Hz	
Power Consumption	30 VA maximum	
Display	16 character LCD	

^{1.} Add 0.1dB to the spec for every 1dB below -60dB.

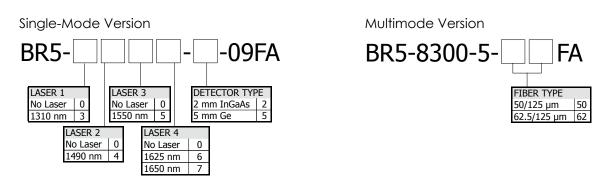
Mechanical/Environmental Specifications

Parameter	specification	
Dimensions (W x H x D)	25 x 12 x 27 cm	
Weight	4 kg	
Operating Temperature	0 to 40 °C	
Storage Temperature	- 40 to 70 °C	
Humidity	Maximum 95% RH from 0 to 40 °C	

ORDERING INFORMATION

Choose one characteristic from each column and assemble the part number. Up to four lasers may be selected for the single-mode version. The standard multimode version contains two lasers at 850 and 1310 nm. Other wavelengths are available upon request (sample: BR5-3050-2-09FA).

C. - - : : : - - : ! : - : -



^{2.} Measured at - 10 dBm.