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Find the *Exfo BRT-320A* at our website: ***Click HERE***

EXFO
Electro-Optical Engineering

We put Fiber Optics to the test... Worldwide



RETURN LOSS TEST SET

BRT-320 SERIES

Quick & easy to operate

Range of -8 to -70 dB

Built-in LASER source

1300 nm and/or 1550 nm[1]

Stores up to 100 readings

Very rugged for field use

Unique 3-Way Powering™

Complies with ANSI/FOTP-107

FIRST OF ITS CLASS

EXFO has innovated again in fiberoptic testing by presenting the first *hand-held return loss test set*, specially designed for field applications. The new BRT-320 is a fully self-contained instrument offering performance and functions unavailable on most larger, more expensive units. This unique, rugged back-reflection test set is highly portable and truly dependable for outside plant testing...no more bulky, fragile equipment in the field.

IMPRESSIVE CHARACTERISTICS

The BRT-320 can perform 1300 nm, 1550 nm or dual wavelength testing[1]. It features a range of -8 to -70 dB, 0.05 dB resolution, ± 0.5 dB accuracy and ±0.10 dB linearity over its full operating range. A built-in user calibration mode allows you to make measurements other units cannot make. Measurements can be stored for further analysis. You can also use the BRT-320 as a highly stable, thermo-electrically cooled laser source for attenuation measurement (± 0.003 dB stability over 15 minutes typical, with a 1-minute stabilization period).

RUGGED DESIGN

EXFO knows how harsh the field can be. The optical and electronic components of the BRT-320 are firmly secured in a robust polycarbonate case. For additional protection, a rubberized holster (with tilt bar and belt clip) acts as a shock absorber. A shoulder strap is also provided to improve portability and to permit hands-free use.

DEPENDABLE POWER SUPPLY

Through the use of the unique 3-Way Powering™ system, the power supply is automatically selected according to priority: 1) from AC adapter when connected 2) from built-in NiCds or 3) from disposable 9-Volt alkaline batteries when other supplies run low. Total battery life gives above 16 hours of uninterrupted measurements!

APPLICATIONS

The BRT-320 allows you to measure the optical return loss (ORL) at a specific point, in a given section of a fiberoptic network or in a complete system.

It is ideal for:

- complete network ORL characterization
- production environment
- ORL testing of components (connectors, splices, passive devices)
- attenuation measurement when used as a stable source[2]

1. Dual wavelength configuration available in March 92
2. In conjunction with a power meter

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OPTICAL SPECIFICATIONS[1]

MODEL BRT-320-[ ]	02BLC-XX	03BLC-XX	23BLC-XX[2]	Units
Measurement wavelength(s):	1300 ± 15	1550 ± 15	1300/1550 ± 15	nm
Optical Linewidth (FWHM):	<8	<8	<8	nm
Optical Stability (15 min.)[3]:	± 0.003	± 0.003	± 0.005	dB
(1 hour)[4]:	± 0.01	± 0.01	± 0.01	dB
Temperature Stability[5]:	± 0.03	± 0.03	± 0.05	dB
Dynamic Range:	-8 to -70	-8 to -70	-8 to -70	dB
Resolution:	0.05	0.05	0.05	dB
Linearity[6]:	± 0.1	± 0.1	± 0.1	dB
Accuracy[7]:	± 0.5	± 0.5	± 0.5	dB
Type of Fiber:	Singlemode	Singlemode	Singlemode	—

GENERAL SPECIFICATIONS[1]

Size:		20 X 10 X 4 cm.	8 X 4 X 1 3/4 in.
Weight	unit:	0.8 kg	1 3/4 lbs
	shipping:	2.5 kg	5 lbs
Three-way powering™:			
Built-in NiCds:		10 hours (typ.) from full charge. Recharges in 14 hours.	
2 x 9-Volt alkaline batteries:		8 hours of operation. Automatic transfer to alkaline batteries when NiCds are low.	
AC Adapter:		Continuous operation from battery charger.	
Standard accessories:		Field carrying case, AC adapter, operation manual, protective holster, shoulder strap, 2 x 9-Volt alkaline batteries, Certificate of Calibration.	
Operation temperature:		-10°C to +40°C	+15°F to +104°F
Storage temperature:		-30°C to +60°C	-22°F to +140°F
Humidity:		0-95% non-condensing	

ORDERING INFORMATION

To order your BRT-320, specify "Model" - "Connector Type" (Ex: BRT-320-02BLC-10):

"Model": pick from:

BRT-320-02BLC:	For measurements at 1300 nm
BRT-320-03BLC:	For measurements at 1550 nm
BRT-320-23BLC[2]:	For measurements at 1300/1500 nm

"Connector type": pick from:

10: unterminated 2 meter fiber pigtail
58: Seiko Geiken (NTT-FC/APC)
60: Radiall VFO-DF
Other low reflection connectors on request.

OPTIONAL ACCESSORIES

- Low reflection test jumpers and pigtails:
  - TJ-B58-10: NTT-FC/APC pigtail
  - TJ-B58-58: NTT-FC/APC 2 meter jumper
  - TJ-B60-10: VFO-DF 2 meter pigtail
  - TJ-B60-60: VFO-DF 2 meter jumper
- RLC-XX return loss calibrators. Can be used to set user calibration along a fiberoptic line when a significant level of attenuation is present between the unit and the device or system under test. Contact manufacturer.

Notes:

1. Characterized at 23°C ± 2 unless otherwise specified.
2. Dual wavelength configuration available in March 1992.
3. Typical, after 1 minute warm-up (measurement mode activated only after warm-up).
4. Typical, after a 10 minute warm-up.
5. For temperature varying from -10 to +40°C.
6. For reflection measurements from -15 to -60 dB.
7. Connector on measurement port must cause less than -50 dB of reflection to maintain full measurement range and resolution.

Specifications are subject to change without notice.

SPBRT-320.1 AN, 01/92

ALSO AVAILABLE FROM EXFO

TELECOM / SONET / CATV PRODUCTS

FOT-50	Power/attenuation test set
FOT-90	Dual-wavelength attenuation meter
FLS-210	LED/Laser dual-wavelength source
VCS-20A	Single-fiber multi-party optical talk set
FVA-60A	Hand-held variable attenuator
FLS-230	Visual fault locator at 660 nm

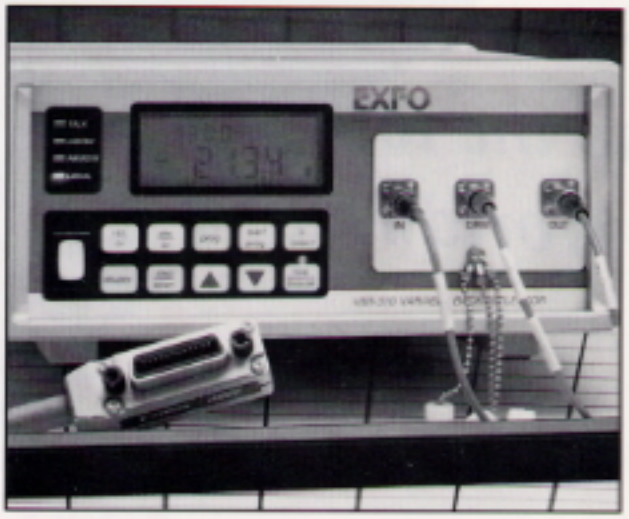
SHORT HAUL PRODUCTS (LAN, ISDN, FDDI, WAN)

LABORATORY / HIGH END PRODUCTS

BRT-300 Optical back-reflection test set, etc.

NETWORK MONITORING / PC CARD INSTRUMENTS

TEST KITS AND ACCESSORIES



The EXFO variable back-reflector (VBR-310) is designed to create a calibrated level of back-reflection over a wide dynamic range. It is ideal to determine the tolerance of high bit rate transmitters / receivers to return loss. Use it in central office, manufacturing or lab environments.

EXFO
Electro-Optical Engineering

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