

VCS-20A

NETWORK TESTING – OPTICAL

[EXFO VCS-20A Specs](#)
Provided by www.AAATesters.com



Combines four convenient tools in a single test set

- Four instruments in one
- 50 dB dynamic range
- Clear digital voice transmission
- Hands-free operation
- Three-way powering
- Multiparty option
- Rugged casing

Flexibility

The VCS-20A brings together four convenient tools in a single test set, combining a full-duplex digital talk set, a stable light source, a 2 kHz tone generator and a 2 kHz tone detector.

Efficient applications

The VCS-20A fulfills more than simple communication needs. In fact, the light source is calibrated and is stable in time and temperature. Use continuous wave selection to perform attenuation and insertion loss tests. Why carry an extra source when one VCS-20A does it all?

Extended dynamic range

Two new configurations have extended the VCS-20A's dynamic range to 50 dB. This wide range makes it possible to use new applications requiring clip-on devices.

Easy-to-use talk set

This unit is rugged and provides high-quality voice communication over a single fiber. The unit's hands-free operation is convenient and simple: press the Talk button to send or receive a call. As usual, conversations are as clear as if both operators were in the same room.

Powerful and durable

For hours of flawless operation, the three-way powering function automatically selects the best alternative among the choices of rechargeable NiMH battery, 9 V alkaline backup and AC adapter/charger input. Its rugged waterproof casing and protective holster make the VCS-20A the preferred field-testing instrument in the outside plant industry.

SPECIFICATIONS ^a

| Model | -02BL | -02BL-ER | -03BL | -03BL-ER |
|--|-----------|-----------|-----------|-----------|
| Emitter type | laser | laser | laser | laser |
| Wavelength (nm) | 1310 ± 25 | 1310 ± 25 | 1550 ± 25 | 1550 ± 25 |
| Spectral width (typical) (nm) | 5 | 5 | 5 | 5 |
| Optimum fiber type (µm) | 9/125 | 9/125 | 9/125 | 9/125 |
| Distance range ^b (approximately) (km/mi.) | 128/80 | 142/89 | 180/112 | 200/125 |
| Power output (dBm)/dynamic range (dB) | | | | |
| 9/125 µm | -5/45 | -5/50 | -5/45 | -5/50 |
| 50/125 µm | -5/30 | -5/35 | -5/30 | -5/35 |
| 62.5/125 µm | -5/28 | -5/33 | -5/28 | -5/33 |
| Stability (dB) | | | | |
| 1 hour ^c | ± 0.10 | ± 0.10 | ± 0.10 | ± 0.10 |
| 8 hours ^d | ± 0.20 | ± 0.20 | ± 0.25 | ± 0.25 |

GENERAL SPECIFICATIONS

| | | |
|-------------------|--|--------------------|
| Size (H x W x D) | 220 mm x 110 mm x 50 mm (8 3/4 in x 4 1/2 in x 2 in) | |
| Weight | | |
| unit | 0.9 kg | (1 3/4 lb) |
| shipping | 2.5 kg | (5 lb) |
| Temperature | | |
| operating | -10 °C to 50 °C | (14 °F to 122 °F) |
| storage | -30 °C to 60 °C | (-22 °F to 140 °F) |
| Relative humidity | 0 % to 95 % non-condensing | |
| Power | Built-in rechargeable NiMH battery lasts 17 hours from full charge, recharges in 6 hours; 9 V battery backup supply lasts 10 hours. Automatic transfer to disposable batteries when rechargeable battery pack runs low. AC adapter/charger for continuous use. | |

Standard Accessories

User guide, AC adapter/charger, built-in rechargeable batteries, two 9 V alkaline batteries, carrying case, protective holster, shoulder strap, headset with boom microphone and Certificate of Compliance.

Safety

This product complies with 21 CFR 1040.10 and 1040.11, and with IEC 60825-1:1993+A2:2001.
CLASS 1 LASER PRODUCT

Notes

- a. All tests performed at 23°C ± 1°/73.4°F ± 4° after 1 minute warm-up period. c. After 10-minute warm-up period.
b. 9/125 µm SMF 28 CPC 3 singlemode fiber. d. After a 20-minute warm-up period.

ORDERING INFORMATION

VCS-20A-XX-XX

Source

- 02BL = 1310 nm laser singlemode
- 03BL = 1550 nm laser singlemode
- 02BL-ER = Extended range 1310 nm laser singlemode
- 03BL-ER = Extended range 1550 nm laser singlemode

Connector

- 58 = FC/APC narrow key
- 89 = FC/UPC
- 90 = ST/UPC
- 91 = SC/UPC
- EI-EUI-28 = UPC/DIN 47256
- EI-EUI-76 = UPC/HMS-10/AG
- EI-EUI-89 = UPC/FC narrow key
- EI-EUI-90 = UPC/ST
- EI-EUI-91 = UPC/SC
- EI-EUI-95 = UPC/E-2000
- EA-EUI-28 = APC/DIN 47256
- EA-EUI-76 = UPC/HMS-10/AG
- EA-EUI-89 = APC/FC narrow key
- EA-EUI-90 = UPC/ST
- EA-EUI-91 = APC/SC7
- EA-EUI-95 = APC/E-20007

Example: VCS-20A-02BL-EI-EUI-89

EXFO Corporate Headquarters > 400 Godin Avenue, Quebec City (Quebec) G1M 2K2 CANADA | Tel.: +1 418 683-0211 | Fax: +1 418 683-2170 | info@EXFO.com

Toll-free: +1 800 663-3936 (USA and Canada) | www.EXFO.com

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|------------------------|---|--|---------------------------|--------------------------|
| EXFO America | 3701 Plano Parkway, Suite 160 | Plano, TX 75075 USA | Tel.: +1 800 663-3936 | Fax: +1 972 836-0164 |
| EXFO Asia | 151 Chin Swee Road, #03-29 Manhattan House | SINGAPORE 169876 | Tel.: +65 6333 8241 | Fax: +65 6333 8242 |
| EXFO China | No. 88 Fuhua First Road Central Tower, Room 801, Futian District | Shenzhen 518048 P. R. CHINA | Tel.: +86 (755) 8203 2300 | Fax: +86 (755) 8203 2306 |
| | Beijing New Century Hotel Office Tower, Room 1754-1755 No. 6 Southern Capital Gym Road | Beijing 100044 P. R. CHINA | Tel.: +86 (10) 6849 2738 | Fax: +86 (10) 6849 2662 |
| EXFO Europe | Omega Enterprise Park, Electron Way | Chandlers Ford, Hampshire S053 4SE ENGLAND | Tel.: +44 2380 246810 | Fax: +44 2380 246801 |
| EXFO Service Assurance | 285 Mill Road | Chelmsford, MA 01824 USA | Tel.: +1 978 367-5600 | Fax: +1 978 367-5700 |

EXFO is certified ISO 9001 and attests to the quality of these products. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. EXFO has made every effort to ensure that the information contained in this specification sheet is accurate. However, we accept no responsibility for any errors or omissions, and we reserve the right to modify design, characteristics and products at any time without obligation. Units of measurement in this document conform to SI standards and practices. In addition, all of EXFO's manufactured products are compliant with the European Union's WEEE directive. For more information, please visit www.EXFO.com/recycle. Contact EXFO for prices and availability or to obtain the phone number of your local EXFO distributor.

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