# EXFO VCS-20A Specs Provided by www.AAATesters.com



# MULTIFUNCTION FIBER-OPTIC TALK SET

VCS-20A

#### **IIII** NETWORK TESTING



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. The VCS-20A can be configured for singlemode and multimode applications with LED or laser sources.

## **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.



# Multifunction Fiber-Optic Talk Set

#### SPECIFICATIONS 1

Model		-02C	-02B	-02BL	-02BL-ER	-03BL	-03BL-ER	
Emitter type		LED	LED	laser	laser	laser	laser	
Wavelength (nm)		1300 ± 30	1310 ± 30	1310 ± 25	1310 ± 25	1550 ± 25	1550 ± 25	
Spectral width (typical) (nm)			80	80	5	5	5 5	
Optimum fiber type (µm)		50/125	9/125	9/125	9/125	9/125	9/125	
Distance range <sup>2</sup> (approximately) (km/mi.)		55/34 <sup>3</sup>	94/59	128/80	142/89	180/112	200/125	
Power output (dBm)/	dynamic range (dB)							
	9/125 μm	-32/13	-17/33	-5/45	-5/50	-5/45	-5/50	
	50/125 μm	-17/33	-17/18	-5/30	-5/35	-5/30	-5/35	
	62.5/125 μm	-17/26	-17/16	-5/28	-5/33	-5/28	-5/33	
Stability (dB)	1 hour⁴	± 0.05	± 0.05	± 0.10	± 0.10	± 0.10	± 0.10	
	8 hours⁵	± 0.20	± 0.20	± 0.20	± 0.20	± 0.25	± 0.25	

#### GENERAL SPECIFICATIONS

Size (H x W x D)		22 cm x 11 cm x 5 cm	(8 3/4 in x 4 1/2 in x 2 in)		
Weight	unit	0.88 kg	(1 <sup>3</sup> / <sub>4</sub> 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.

- All tests performed at 23°C ± 1°/73.4°F ± 4° after 1 minute warm-up period.
   9/125 µm SMF 28 CPC 3 singlemode fiber.
   50/125 µm CPC 3 multimode fiber.

- After a 10-minute warm-up period.
- After a 20-minute warm-up period. For multimode sources only.
- For singlemode sources only

This product complies with 21 CFR 1040.10 and 1040.11, and

with IEC 60825-1:1993+A2:2001. CLASS 1 LASER PRODUCT

CLASS 1 LED PRODUCT

#### ORDERING INFORMATION

# VCS-20A-XX-XX

### Source

02C = 1300 nm LED multimode

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

91 = SC/UPCEI-EUI-28 = UPC/DIN 47256 EI-EUI-76 = UPC/HMS-10/AG

Connector  $50 = FC/PC^6$ 

 $54 = SC/PC^6$ 58 = FC/APC narrow key

 $74 = ST/PC^6$ 

89 = FC/UPC

90 = ST/UPC

EI-EUI-89 = UPC/FC narrow key EI-EUI-90 = UPC/ST

EI-EUI-91 = UPC/SC EI-EUI-95 = UPC/E-2000EA-EUI-28 = APC/DIN 472567 EA-EUI-76 = UPC/HMS-10/AG EA-EUI-89 = APC/FC narrow key<sup>7</sup>

EA-EUI-90 = UPC/ST  $EA-EUI-91 = APC/SC^7$  $EA-EUI-95 = APC/E-2000^7$ 

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



Find out more about EXFO's extensive line of high-performance portable instruments by visiting our website at www.exfo.com.



- OLTS Power meter
- Light source
- Talk set



OTDR

- OLTS
- ORL meter
- -Switch

#### DWDM Test Systems

- -OSA
- PMD analyzer
- Chromatic dispersion analyzer
- Multiwavelength meter

#### Telecom/Datacom

- -10/100 and Gigabit Ethernet
- -SONET/SDH (DS0 to OC-192c)
- -SDH/PDH (64 kb/s to STM-64c)



Corporate Headquarters > 400 Godin Avenue, Vanier (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			
EXFO America	4275 Kellway Circle, Suite 122	Addison, TX 75001 USA	Tel.: 1 800 663-3936	Fax: 1 972 836-0164	
EXFO Europe	Le Dynasteur, 10/12 rue Andras Beck	92366 Meudon la Forêt Cedex FRANCE	Tel.: +33.1.40.83.85.85	Fax: +33.1.40.83.04.42	
EXFO Asia-Pacific	151 Chin Swee Road, #03-29 Manhattan House	SINGAPORE 169876	Tel.: +65 6333 8241	Fax: +65 6333 8242	
EXFO China	Beijing New Century Hotel Office Tower, Room 1754-1755	Beijing 100044 P. R. CHINA	Tel.: +86 (10) 6849 2738	Fax: +86 (10) 6849 2662	
	No. 6 Southern Capital Gym Road				

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. Contact EXFO for prices and availability or to obtain the phone number of your local EXFO distributor. For the most recent version of this spec sheet, please go to the EXFO website at http://www.exfo.com/specs







In case of discrepancy, the Web version takes precedence over any printed literature.