



VCS-20A

Multi-Function Fiber-Optic Talk Set

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

Compatibility

EXFO has made sure that the latest VCS-20A works with a wide range of our test instruments. It is fully compatible with the new talk set options of the FOT-920 MaxTester as well as the talk set options of the FTB-1400 and FTB-3920 MultiTest modules. More importantly, the improved version of the VCS-20A is compatible with previously sold VCS-20A models.

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?

Four instruments in one

50 dB dynamic range



MAX TESTER, FTB-3920, and FTB-1400 compatible

Clear digital voice transmission

Hands-free operation

3-Way Powering

Multi-party option

Rugged casing

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 3-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.

SPECIFICATIONS¹

Model	-02C	-02B	-02BL	-02BL-ER	-03BL	-03BL-ER
Emitter type	LED	LED	laser	laser	laser	laser
Wavelength (nm)	1300 ±30	1310 ±30	1310 ±15	1310 ±15	1550 ±15	1550 ±15
Spectral width (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 ² (approximately) (km/mi.)	55/34 ³	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 hour ⁴	±0.05	±0.05	±0.10	±0.10	±0.10	±0.10
8 hours ⁵	±0.20	±0.20	±0.20	±0.20	±0.25	±0.25

GENERAL SPECIFICATIONS

Size (H x W x D)	22 x 11 x 5 cm	8 3/4 x 4 1/2 x 2 in.
Weight	unit 0.88 kg	1 3/4 lb.
	shipping 2.5 kg	5 lb.
Temperature	operating -10° to 50°C	14° to 122°F
	storage -30° to 60°C	-22° 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

Instruction manual, 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

NOTES

- 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.

SAFETY

This product complies with 21 CFR 1040.10 and 1040.11, and with IEC 60825-1:1993+A1:1997.

CLASS 1 LASER PRODUCT
CLASS 1 LED PRODUCT

ORDERING INFORMATION

VCS-20A-XXXX-XX

Source code

02C = 1300 nm LED multimode
02B = 1310 nm LED singlemode
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 code

50 = FC/PC⁵
54 = SC/PC⁶
58 = FC/APC narrow key
74 = ST/PC⁵
86 = DIN/APC
88 = SC/APC
89 = FC/UPC
90 = ST/UPC
91 = SC/UPC
EI = UPC Universal Interface
EA = APC Universal Interface

The fixed-base plate (EI or EA) must be ordered with a removable universal connector adapter (EUI-XX). Please specify one EUI from the following list:

EUI-89 = FC
EUI-90 = ST
EUI-91 = SC
EUI-95 = E-2000
EUI-28 = DIN 47256
EUI-76 = HMS-10/AG

Example: VCS-20A-02BL-EI-EUI-89 for FC/UPC interface
VCS-20A-02BL-EA-EUI-89 for FC/APC interface

EXFO is certified ISO 9001 and attests to the quality of its products. These products are accompanied by a 12-month warranty and an excellent after-sales support service.

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 brochure 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.

Contact EXFO for prices and availability or to obtain the phone number of your local EXFO distributor.



1 800 663-3936
info@exfo.com
www.exfo.com



CORPORATE HEADQUARTERS: 465 Godin Avenue, Vanier QC G1M 3G7, Canada Tel.: (418) 683-0211 Fax: (418) 683-2170

EXFO AMERICA: 903 North Bowser, Suite 360, Richardson, TX, 75081, USA Tel.: 1 800 663-3936 Fax: (972) 907-2297

EXFO EUROPE: Centre d'Affaires-Les Metz, 100, rue Albert Calmette, 78353 Jouy-en-Josas, France Tel.: +33 1 34 63 00 20 Fax: +33 1 34 65 90 93