MULTIFUNCTION FIBER-OPTIC TALK SET

VCS-20A

NETWORK TESTING – OPTICAL

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.
b. 9/125 µm SMF 28 CPC 3 singlemode fiber.
c. After 10-minute warm-up period.
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

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

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

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

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

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