

MULTIFUNCTION FIBER-OPTIC TALK SET

- Four instruments in one
- 50 dB dynamic range
- Clear digital voice transmission
- Hands-free operation

Three-way poweringMultiparty optionRugged 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. 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

SPECIFICATIONS¹

Model		-02C	-02B	-02BL	–02BL-ER	-03BL	–03BL-ER	
Emitter type		LED	LED	laser	laser	laser	laser	
Wavelength (nm) 1300 ± 3		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 ² (approximately) (km/mi.) 55/34 ³		55/34 ³	94/59	128/80	142/89	180/112	200/125	
Power output (dBm)/o	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 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-conde	0 % to 95 % non-condensing		
Power		charge, recharges in 6 ho 10 hours. Automatic trar	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 ACCESS	ORIES				
User quide. AC adapt		geable batteries, two 9 V alkalin	e batteries, d Certificate of Compliance.		

- Pin tests performed at 25 C ± 1 //3.4 F ± 4
 9/125 μm SMF 28 CPC 3 singlemode fiber.
 50/125 μm CPC 3 multimode fiber.

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

SAFETY

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- <mark>XX</mark> -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	Connector $50 = FC/PC^6$ $54 = SC/PC^6$ $58 = FC/APC$ narrow key $74 = ST/PC^6$ $89 = FC/UPC$ $90 = ST/UPC$ $90 = ST/UPC$ $91 = SC/UPC$ $91 = SC/UPC$ $EI-EUI-28 = UPC/DIN 47256$ $EI-EUI-76 = UPC/HMS-10/AG$ $EI-EUI-91 = UPC/ST$ $EI-EUI-91 = UPC/SC$ $EI-EUI-91 = UPC/SC$ $EI-EUI-95 = UPC/E-2000$ $EA-EUI-28 = APC/DIN 47256^7$ $EA-EUI-28 = APC/DIN 47256^7$ $EA-EUI-95 = UPC/FC$ narrow key' $EA-EUI-89 = APC/FC$ narrow key' $EA-EUI-90 = UPC/ST$ $EA-EUI-90 = UPC/ST$ $EA-EUI-90 = UPC/ST$ $EA-EUI-91 = APC/SC'$				
Example: VCS-20A-02BL-EI-EUI-89	$EA-EUI-95 = APC/E-2000^{7}$				

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