

C-band FBG Interrogator

Model #: FBGI-97001C

Description: FBG Interrogator is based on self-developed patented technology, based on a scanning semiconductor laser, integrated with multi-channel simultaneous photodetection, which enables high-speed, high-precision fiber grating demodulation in the 40 nm range. High-precision wavelength calibration ensures the accuracy and repeatability of wavelength demodulation, and the built-in absolute reference ensures the demodulator has excellent performance over the full temperature range.

Applications:

- · Medical field: monitoring vital signs and ensuring the safety of medical equipment.
- Industrial filed: aid in controlling and optimizing processes.
- Military field: provide critical data for security and surveillance purposes.

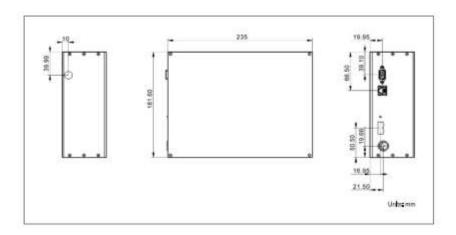
Key Features:

- High Repeatability ± 2 pm
- High Speed Measurement up to 1 kHz
- Built-In All-Semiconductor Components, Stable and Reliable
- Simultaneous Measurement of All Channels with Built-In Absolute Reference

Specifications:

openioutions.				
Parameter	Unit	Specifications		
Demodulation Range	nm	1528 - 1568		
Demodulation Frequency ¹	Hz	1 - 1000		
Sweep Step	GHz	≥ 2		
Channel Number		8/16/24/32		
Sensors/Channel		≤ 30		
Wavelength Repeatability	pm	± 2		
Wavelength Stability	pm	± 10		
Dynamic Range ²	dB	≥ 25 or ≥ 35		
Side Mode Suppression Ratio	dB	≥ 40		
Operating Temperature	°C	-15 to +55		
Communication Interface		RJ45/RS232		
Power Supply ³	W	≤ 18 or ≤ 20		
Dimension	mm	235 x 205.6 x 72		

Dimensions





Ordering Information: FBGI-97001C-AAAA-BB-C-D

AAAA: Sweep Speed (Hz)	BB: Channel	C: connector type	D- Installation
0003 – 3	08 – 8 channel	1 – FC/UPC	F - Flange
0100 - 100	10 – 16 channel	2 – FC/APC	P – Fiber pigtail (500mm)
1000 - 1000	24 – 24 channel	X - other	
XXXX - other	32 - 32 channel		