

SOUND SOLUTIONS FROM LIGHT TECHNOLOGY



OPTIMIC[™] 2190

Ruggedized Fiber Optic Microphone for High SNR, Long Range Applications

Fiber optic microphone for indoor and outdoor acoustic monitoring that requires high signal-to-noise ratios (SNR) over extended distances. Ideal for industrial use, placement in heavy machinery, or where the microphone requires very robust housing and fiber cables.

FEATURES

- ► Robust design suited to industrial applications
- ► Absolute EMI/RFI immunity
- Completely passive sensor with no metal or electrical parts
- ► High SNR over long distances
- ► Noise levels lower than best electret microphones
- ► High reliability and environmental stability
- Optical fiber connection over extended lengths without signal loss
- Exceptionally low sensitivity to vibration
- Plug-and-play system
- Cost-effective, long-term solution

TECHNICAL SPECIFICATIONS

Omnidirectional		
10-10,000 Hz		
100 mV/Pa ±10% at 1 kHz		
≤34 dBA		
1000 m		
114 dB SPL		
<1% at 84 dB SPL		
Max. 45 dB SPL/g at 1 kHz		
8-15 V DC		
-20 to +60 °C (-4 to +140 °F)		
-20 to +60 °C (-4 to +140 °F)		
>100,000 hours		

APPLICATIONS

- Extremely low level noise monitoring
- Long range peer-to-peer monitoring
- ► 'No interference' signal monitoring
- ► Oil and gas detection sites
- High voltage electrical utilities
- ► Highly explosive areas
- ► High RFI and EMI areas
- Aerospace measurements
- Petrochemical facilities



OPTIMIC[™] 2190 System Kit

Complete, versatile, cost-effective solution

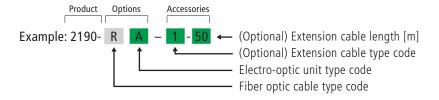
Optoacoustics' OPTIMIC 2190 system is comprised of our advanced OPTIMIC fiber optic microphone, electro-optical unit, audio cable with BNC connector, DC power supply and a ruggedized carrying case.



Optoacoustics EOU 100 electro-optical unit showing fiber optic, audio, and power supply connections

PRODUCT ORDERING GUIDE

Use the matrix below to select options and accessories for your order.



Options	Fiber Optic Cable Type	Electro-Optic Unit Type		
Item	Black Polyamide ∅ 5.1 mm	EOU 100 Single Channel	EOU 200 Single Channel	
	R	Α	В	
	5 7			

Accessories	Extension Cable Type (Specify length from 10-1000 m)				
Item	Outdoor, Milspec ∅5 mm	Outdoor, Polyamide ∅ 5.1 mm	Indoor, Rugged Ø 3.0 mm	Indoor, Zip Cord Ø 3.0 x 2 mm	
Code	1	2	3	4	
			©		





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Optoacoustics is a leading manufacturer of high performance, optical fiber-based sound and vibration sensors. Each of our products combines the natural intelligence of optics and acoustics to meet technical performance demands which cannot be addressed by conventional sensing solutions. Optoacoustics' pioneering technology is protected by over 20 international patents.

HEADQUARTERS

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