

SOUND SOLUTIONS FROM LIGHT TECHNOLOGY



OPTIMIC[™] 4130

Fiber Optic Contact Microphone

Contact fiber optic microphone designed for structureborne monitoring in the audio range.

FEATURES

- Robust design suited to medical applications
- ► Absolute EMI/RFI immunity
- Completely passive sensor with no metal or electrical parts
- Excellent for monitoring structure-borne sounds
- High reliability and environmental stability
- Optical fiber connection over extended lengths without signal loss
- Available in two frequency response ranges
- Plug-and-play system
- Cost-effective, long-term solution

TECHNICAL SPECIFICATIONS

Device Type	Contact microphone
Model Options	Model A Model B
Frequency Response	10-200 Hz 10-5,000 Hz
Conformity	±3.0 dB ±10.0 dB
Sensitivity at 1 mg (RMS)	10 mV 10 mV
Equivalent Self-Noise	≤2 μg ≤5 μg
Maximum acceleration	0.3 g 0.3 g
Supply Voltage	8-15 V DC
Current Drain (max.)	80 mA
Operating Temperature	-20 to +60 °C (-4 to +140 °F)
Storage Temperature	-20 to +60 °C (-4 to +140 °F)
Water Resistant	Up to 10 m
MTBF	>100,000 hours
Microphone Head	
Material	Polycarbonate
Diameter	36 mm
Weight	18 g
Optical Cable Length	10 m

APPLICATIONS

- ► High voltage electrical utilities
- Oil and gas detection sites
- ► Highly explosive areas
- ► Heart monitoring (Model A)
- ► High RF areas
- ► Severe electromagnetic fields
- Aerospace measurements
- Petrochemical facilities
- ► Homeland security



OPTIMIC[™] 4130 System Kit

Complete, versatile, cost-effective solution

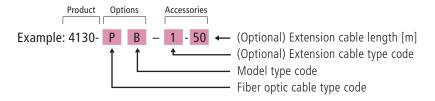
Optoacoustics' OPTIMIC 4130 system is comprised of our advanced OPTIMIC fiber optic microphone, electro-optic unit, audio cable with BNC connector, DC power supply and a ruggedized carrying case.



Optoacoustics EOU 100 electro-optic 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	
ltem	Clear PVC Ø 1 mm	Kevlar reinforced black PVC Ø 3 mm	EOU 200 Single Channel	
Code	P	F	В	
	5 6 7	5 6 7		

Accessories	Extension Cable Type (Specify length from 10-100 m)			
Item	Outdoor, Milspec ∅ 5 mm	Outdoor, Polyamide ∅ 5.1 mm	Indoor, Rugged ∅ 3.0 mm	Indoor, Zip Cord Ø 3.0 x 2 mm
Code	1	2	3	4
	00			0-0





SOUND SOLUTIONS FROM LIGHT TECHNOLOGY

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

17 Hata'asia Street 60212 Or-Yehuda Israel TOLL-FREE +1 866-867-5029
PHONE +972 3-634-4488
FAX +972 3-634-9292
EMAIL info@optoacoustics.com

Copyright © 2007 Optoacoustics Ltd. All rights reserved. The information appearing here is subject to change without notice. Unless otherwise indicated, all product names are trademarks of Optoacoustics Ltd.