



SOUND SOLUTIONS FROM LIGHT TECHNOLOGY



OPTIMIC™ MEG

Fiber Optic Microphone for Communications in MEG

Completely passive fiber optic microphone for highly sensitive medical MEG environment communications.

FEATURES

- ▶ High quality communications during MEG mapping
- ▶ No effect on MEG imaging
- ▶ Completely non-metallic sensor, absolute EMI/RFI immunity
- ▶ Patented MEMS microphone technology
- ▶ Flexible boom mounting configurations
- ▶ Standard analog output
- ▶ High reliability and environmental stability
- ▶ Exceptionally low sensitivity to vibration
- ▶ Plug-and-play system
- ▶ Complete, cost-effective solution

TECHNICAL SPECIFICATIONS

Polar Pattern	Omnidirectional
Frequency Response	30-15,000 Hz
Conformity 30 - 1,000 Hz	±0.5 dB
Conformity 1,000 - 15,000 Hz	±3.0 dB
Sensitivity	100 mV/Pa ±10% at 1 kHz
Equivalent Self Noise	≤31 dBA SPL
Maximum Acoustic Pressure	114 dB SPL
Total Harmonic Distortion	<1% at 84 dB SPL
Equivalent Vibration Sensitivity	Max. 45 dB SPL/g at 1 kHz
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)
Humidity - 1000 hours	Up to 95% RH at 40 °C
MTBF	>100,000 hours
Microphone Head Material	ABS
Maximum Diameter at Base	130 mm
Weight	350 g
Gooseneck Boom Length	500 mm
Optical Cable Length	10 m

APPLICATIONS

- ▶ Interactive patient communications during MEG mapping procedures



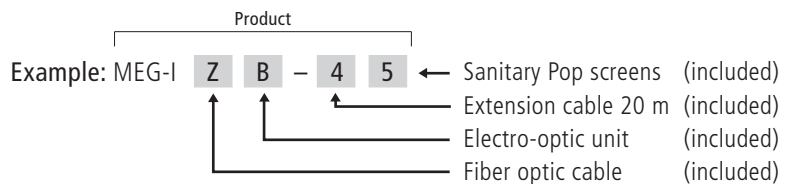
OPTIMIC™ MEG Microphone System Kit

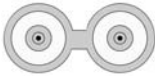

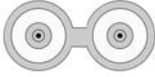

Complete, versatile, cost-effective solution

Optoacoustics' OPTIMIC MEG microphone system kit is comprised of our advanced fiber optic microphone, electro-optic control unit, cable with standard 3.55 mm audio connector, ultra flexible gooseneck boom stand, DC power supply, zip cord extension cable, disposable pop screens and a protective storage case.

PRODUCT ORDERING GUIDE

The matrix below shows components included with each MEG order.



Kit Includes	Fiber Optic Cable Type	Electro-Optic Unit Type
Item	Indoor Zip Cord Ø 3.0 x 2 mm	EOU 200 Single Channel
Code	Z	B
		
	Extension Cable	Sanitary Pop Screens
Item	Indoor Zip Cord (20 m) Ø 3.0 x 2 mm	Clip-On, Disposable 6 Pack
Code	4	5
		



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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.

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DS-MEG-1 0811