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POFM 01

OPTICAL FIBER MICROPHONE SYSTEM

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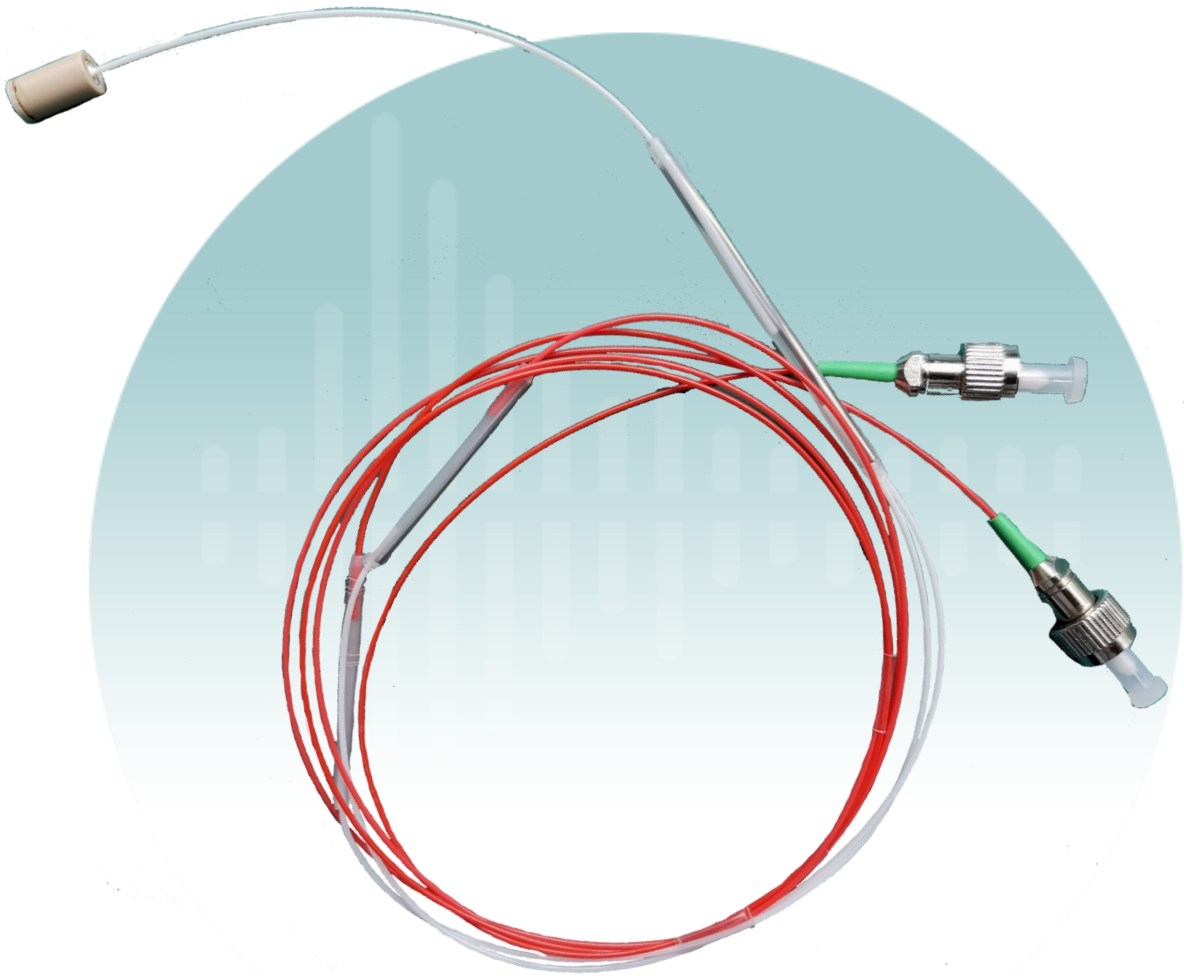
POFM 01



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OVERVIEW

The PLACID POFM01 Fiber optic microphone system consists of a fiber optic microphone, transmission fiber, photoelectric conditioning module, audio cable, power supply. optical fiber microphone system
Its audio output is based on analog output of standard audio cables, without the need for additional preamplifiers. Each fiber optic microphone has been individually calibrated during the production process to achieve consistent performance.

The basic working principle of fiber optic sensors is to use light emitting diodes (LEDs) as the light source and incident it onto a metal coated vibration diaphragm through the optical fiber. When the sound signal causes the diaphragm to vibrate, the incident light is modulated by the diaphragm vibration and reflected out. The receiving fiber receives reflected light, which can be demodulated and restored to an acoustic signal.

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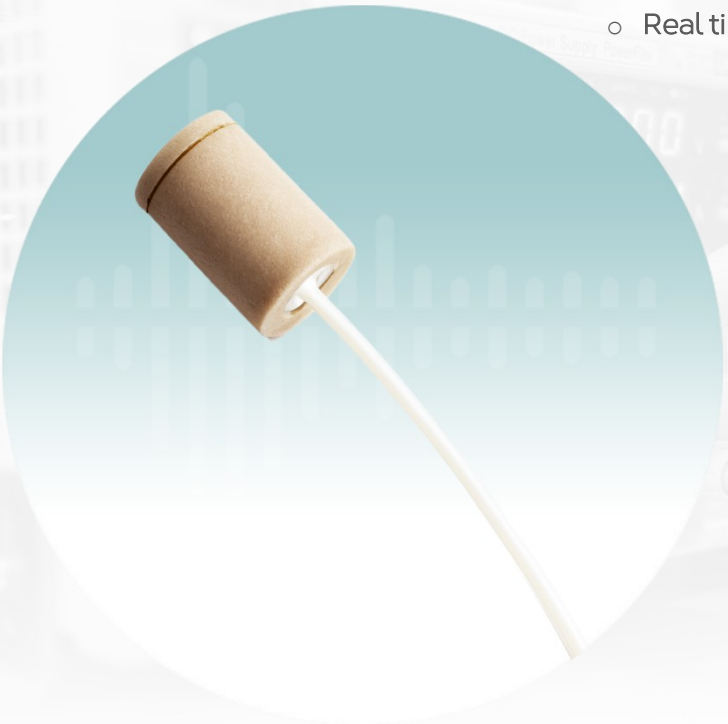
PLACID OPTICAL FIBER MICROPHONE SYSTEM | POFM 01

FEATURES

INTEGRATING OPTICAL AND ACOUSTIC CHARACTERISTICS:

- High sensitivity
- Compact structure
- Front end passive
- Anti electromagnetic/radio frequency interference
- Passive sensitive components
- Wide frequency response
- Standard analog output
- High reliability and environmental stability
- Fiber optic connection without signal loss
- Real time listening via 3.5 mm jack output in DAQ



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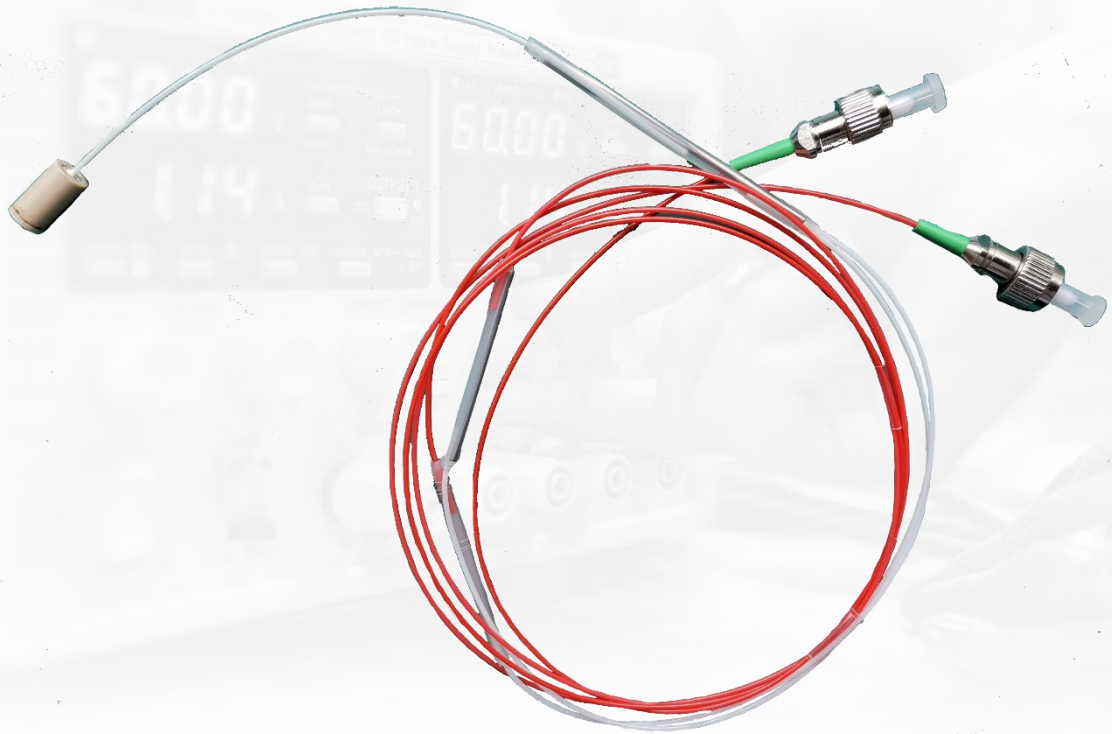
SPECIFICATION POFM01	
Sensitivity	200 mV/Pa
Frequency Range	3.15 – 6K Hz
Upper Limit for Dynamic Range	114 dB
Length	1 – 200 m
Type	Interference
Selfnoise	30 dB



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APPLICATION

- Industrial equipment monitoring
- High voltage electrical equipment
- High explosive areas
- Magnetic resonance imaging environment
- High electromagnetic interference and radio frequency interference environment
- Petrochemical industry and nuclear industry
- Stage broadcast recording
- Electromagnetic Compatibility Testing Laboratory

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