



## FOSA™ 2660

### Fiber Optic Accelerometer for Orthogonal Monitoring Applications

Dual axis fiber optic accelerometer for remote monitoring of vibration in two orthogonal directions. Ideal for equipment where the accelerometer is a sub-component in another device or system.

#### FEATURES

- ▶ Completely passive sensor with no electrical parts
- ▶ Absolute EMI/RFI immunity
- ▶ Exceptionally low noise density
- ▶ Model options suited to a variety of applications
- ▶ Standard analog output
- ▶ Small, lightweight design
- ▶ High reliability and environmental stability
- ▶ Optical fiber connection over extended lengths without signal loss
- ▶ Plug-and-play system
- ▶ Cost-effective, long-term solution

#### TECHNICAL SPECIFICATIONS

Model Options	Type 1	Type 2	Type 3
Frequency Response (±5%)	0.5-100 Hz	1-330 Hz	1-1000 Hz
Maximum Acceleration	3 g	20 g	80 g*
Noise Density (micro-g/√Hz)	<3	<30	<300
Nominal Sensitivity	100 mV/g		
Power Supply	8-15 V, 100 mA		
Output Impedance	<100 Ohm		
Phase Shift	0 deg		
Amplitude Non-linearity	<5 %		
Transverse Sensitivity	<3 %		
Base Strain Sensitivity	0.0001 g/micro-m/m		
Temperature Range	-20 to +100 °C (-4 to +212 °F)		
MTBF	>100,000 hours		
Sensor Head			
Material	Polycarbonate		
Weight	20 g		
Dimensions L/W/H	45/16/21 mm		
Optical Cable Length	10 m		

\* When paired with EOU 400 Industrial

#### APPLICATIONS

- ▶ End-winding vibration monitoring
- ▶ Power generation facilities
- ▶ High voltage electrical areas
- ▶ Oil and gas installations
- ▶ Highly explosive areas
- ▶ High RF areas
- ▶ Severe electromagnetic fields
- ▶ Petrochemical/nuclear facilities
- ▶ EMC test labs



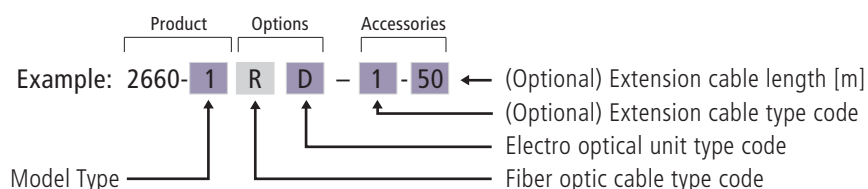
## FOSA™ 2660 System Kit

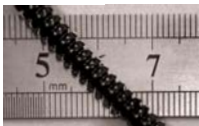


Complete, versatile, cost-effective solution




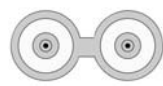
Optoacoustics' FOSA 2660 system is comprised of our dual axis fiber optic accelerometer, electro-optical unit, output signal cable with BNC connector, DC power supply and a ruggedized carrying case.

### PRODUCT ORDERING GUIDE

Use the matrix below to select accessories for your order.



Options	Fiber Optic Cable Type	Electro-Optical Unit Type	
Item	Black Polyamide Ø 5.1 mm	EOU 450 Lab Dual Axis	EOU 400 Industrial Dual Axis
Code	<b>R</b>	<b>D</b>	<b>E</b>
			

Accessories	Extension Cable Type (Specify length from 10-100 m)			
Item	Outdoor, Milspec Ø 5 mm	PVC Ø 5 mm	Indoor, Rugged Ø 3.0 mm	Indoor, Zip Cord Ø 3.0 x 2 mm
Code	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
				



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.

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