



FOA-200

FIBER OPTIC ACCELEROMETER - DUAL AXIS

GENERAL SPECIFICATIONS

Operation (both axis)

- Sensitivity
- Measuring range
- Bandwidth
- Voltage output
- Sensitivity deviation vs temperature Class A Class F
- Maximum shock acceleration
- Resonance frequency
- Transverse sensitivity
- Residual noise

Power Requirements

- Voltage
- Consumption

Connection

- Connector type
- Maximum cable length

Environmental

Temperature range		
Operating		
Sensor head (Class A)		
Sensor head (Class F)		
Conditioner		
Non-destructive		
Sensor head		
Storage		

- Humidity
- Electrical insulation (head vs conditioner) At 25°C [77°F] & 25% humidity
- Electrical & magnetic field

Physical characteristics

- Sensor head
 Integral cable Material
 - Length
 - Lengui
 - Minimum bending radius
- Conditioner body

100 mV/g ±5% 0 to 40 g peak 10 to 1000 Hz (-3 dB) 6 Vdc ±5% bias, ±4 Vac

±10% max. @ 105°C *[221°F]* ±10% max. @ 155°C *[311°F]* 1000 g half sine, 1 ms duration > 2 kHz < 5% respecting sensitive axis Typical 8 mV_{RMS}, max. 27 mV_{RMS}

24 Vdc ±20% 80 mA max.

4-pin M12 male 350 m *[1150 ft]*

-40 to 105°C [-40 to 221°F] -40 to 155°C [-40 to 311°F] 0 to 70°C [32 to 158°F]

-50 to 200°C [-58 to 392°F] -20 to 85°C [-4 to 185°F] Up to 95% non-condensing

Up to 3 kV/mm No effect (head only)

Non-conductive materials

Fiber optics / PTFE jacket 10 m [33 ft] 80 mm [3.15 in.] Nickel-plated brass







DIMENSIONS



PRODUCT IDENTIFICATION

Product Number	Description
VSM-FOA200-10A	FOA-200 Dual-Axis Fiber Optic Accelerometer complete with 10m integral fiber optic cable and signal conditioner (Class A 105°C)
VSM-FOA100-10F	FOA-200 Dual-Axis Fiber Optic Accelerometer complete with 10m integral fiber optic cable and signal conditioner (Class F 155°C)

