

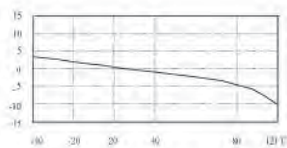
141A Series

Triaxial IEPE Accelerometers

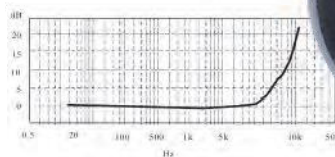
The **141A** is a triaxial IEPE accelerometer.

Features:

- Built-in IEPE preamplifier
- Tri-Axial (X,Y,Z)
- Mounting via centre hole;
- 1/4-28 4pin output



Temperature Response



Frequency Response



TECHNICAL DATA: YMC 141A SERIES

Model	141A10	141A20	141A50	141A100
Axial Sensitivity (20 ±5)	10 mV/g	20 mV/g	50 mV/g	100 mV/g
Measurement Range (peak)	± 500 g	± 250 g	± 100 g	± 50 g
Output Voltage Range	± 5 V	± 5 V	± 5 V	± 5 V
Transverse Sensitivity	≤ 5 %	≤ 5 %	≤ 5 %	≤ 5 %
Frequency Response (0.5 dB)	1 to 6,000 Hz	1 to 6,000 Hz	0.5 to 5,000 Hz	0.5 to 5,000 Hz
Mounting Resonance Frequency	18,000 Hz	18,000 Hz	15,000 Hz	15,000 Hz
Operating Temp. Range	-40 °C to +121 °C	-40 °C to +121 °C	-40 °C to +121 °C	-40 °C to +121 °C
Shock Limit (±peak)	± 1,000 g	± 1,000 g	± 1,000 g	± 1,000 g
Operating Voltage	+18 to +28 VDC	+18 to +28 VDC	+18 to +28 VDC	+18 to +28 VDC
Operating Current	+2 to +10 mA	+2 to +10 mA	+2 to +10 mA	+2 to +10 mA
Output Signal (peak)	≤ 8 V	≤ 8 V	≤ 8 V	≤ 8 V
Sensing Element	PZT-5/Shear	PZT-5/Shear	PZT-5/Shear	PZT-5/Shear
Noise (1 to 20 kHz)	< 10 mg	< 6 mg	< 2 mg	< 1 mg
Base Strain Sensitivity	0.2 mg/Ωε	0.2 mg/Ωε	0.2 mg/Ωε	0.2 mg/Ωε
Magnetic Sensitivity	1.5 g/T	1.5 g/T	1.5 g/T	1.5 g/T
Thermal Transient Sensitivity	10 mg/°C	10 mg/°C	10 mg/°C	10 mg/°C
Output Impedance	<100 Ω	<100 Ω	<100 Ω	<100 Ω
DC Offset Voltage	12 ±2 V	12 ±2 V	12 ±2 V	12 ±2 V
Weight	12 g	14 g	18 g	18 g
Size	10.5 mm ³	12 mm ³	14 mm ³	14 mm ³
Case Material	stainless steel	stainless steel	stainless steel	stainless steel
Mounting Method	Glue	M2.5/Glue	M2.5/Glue	M2.5/Glue
Accessories	for all models: 1/4-28(4-Pin)/3-BNC (5 Meter)			