

A-SERIES • ACCELEROMETERS

VX-A1100

Single-axis IEPE accelerometer, 100 mV/g

A hermetically sealed accelerometer in a 316L stainless-steel case, built around a shear-mode PZT-5A sensing element. It covers 1 Hz to 10 kHz within ± 3 dB and measures up to ± 80 g, for industrial vibration measurement on any standard IEPE input.

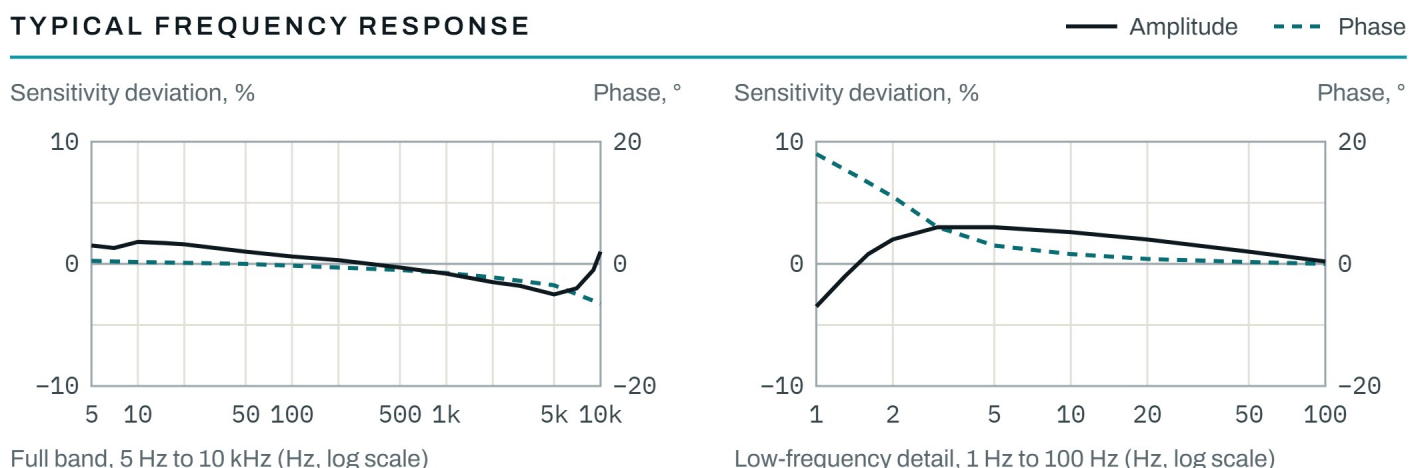
100 mV/g Sensitivity, ± 5 %	1 Hz–10 kHz Frequency range, ± 3 dB	± 80 g Measuring range	IP65 Hermetically sealed	$-40...+100$ °C Operating range
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FEATURES

- Shear-mode PZT-5A sensing element
- Hermetically sealed 316L stainless-steel case
- Runs from any IEPE input, 2–10 mA constant current
- MIL-C-5015 2-pin connector
- $\frac{1}{4}$ -28 UNF or M6 tapped mounting, chosen at order
- Survives 2000 g shock on every axis

PERFORMANCE

Sensing mode	IEPE
Sensitivity (160 Hz, 4 mA, ambient)	100 mV/g ± 5 %
Frequency range, amplitude ± 3 dB	1 Hz – 10 kHz
Frequency range, amplitude ± 10 %	5 Hz – 8 kHz
Frequency range, phase $\pm 5^\circ$	5 Hz – 5 kHz
Resonant frequency, axial	> 23 kHz
Resonant frequency, transverse	> 15 kHz
Measuring range	± 80 g pk (± 785 m/s ²)
Non-linearity	< 1 %
Weight	< 100 g

TYPICAL FREQUENCY RESPONSE


Typical curves. Individual units vary within the limits stated in the Performance table.

ELECTRICAL

Bias voltage (4 mA, ambient)	12 ±0.5 V
Bias voltage (full current and temperature range)	8 – 13 V
Supply voltage, unloaded	20 – 30 V
Constant-current excitation	2 – 10 mA
Output impedance	< 100 Ω

ENVIRONMENTAL

Operating temperature	–40 to +100 °C
Temperature coefficient of sensitivity	0.05 %/°C
Shock limit, axial and transverse	2000 g pk

MECHANICAL

Case material	316L stainless steel
Sensing element	PZT-5A, shear mode
Sealing	Hermetic
Protection class	IP65
Connector	MIL-C-5015, 2-pin
Mounting	¼-28 UNF or M6 tapped

ORDERING INFORMATION

VX	A	1	100	-U
Brand	Series	Axes	Sensitivity	Mounting thread
Vertrix	A = acceleration, vibration	1 = single axis 3 = triaxial	Nominal, in mV/g	U = ¼-28 UNF M = M6

ORDER CODE	DESCRIPTION
VX-A1100-U	Single-axis IEPE accelerometer, 100 mV/g, ¼-28 UNF tapped mounting hole
VX-A1100-M	Single-axis IEPE accelerometer, 100 mV/g, M6 tapped mounting hole

NOTES

- 1

g is standard gravity, 9.80665 m/s².
- 2

1-year warranty.
- 3

Specify the mounting thread when ordering.
- 4

Delivery included anywhere in India.