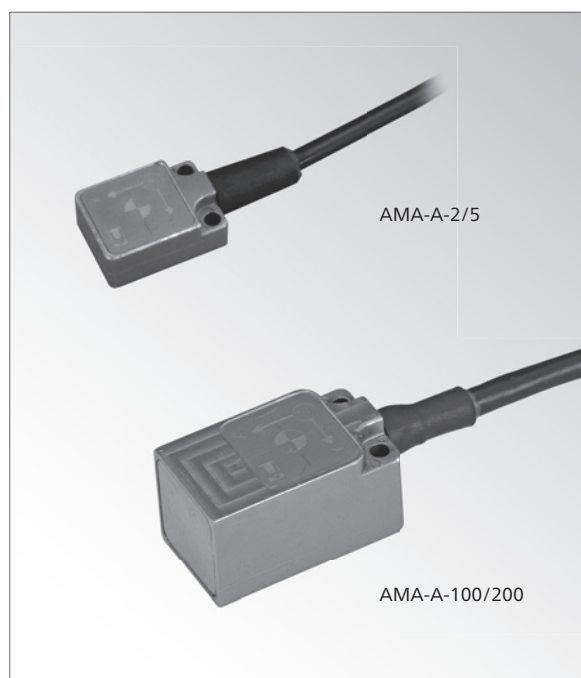


Small-sized Triaxial Accelerometer

- Simultaneous measurement of acceleration in X, Y and Z directions
- 19.61 to 1961 m/s²



Compact & lightweight acceleration transducer enduring large overloads

- Compact and triaxial
- High frequency response
- Fault diagnosis function is available (AMA-A-2/5)
- Battery box for AMA is also available as an optional accessory.

Specifications

Performance

Rated Capacity	See table below.
Nonlinearity	Within $\pm 1\%$ RO (100, 200: Within $\pm 2\%$ RO)
Hysteresis	Within $\pm 1\%$ RO
Rated Output	2 V $\pm 10\%$
Peak-to-peak Sensitivity Error	4% RO or less

Environmental Characteristics

Safe Temperature	-20 to 80°C (Non-condensing)
Compensated Temperature	-10 to 60°C (Non-condensing)
Temperature Effect on Zero	Within $\pm 0.5\%$ RO / °C
Temperature Effect on Output	Within $\pm 1\%$ / °C
Electrostatic Withstand Voltage	4 kV

Electrical Characteristics

Safe Excitation	Dual supply: ± 7 VDC Single supply: 14 VDC
Recommended Excitation	Dual supply: ± 2.5 to ± 6 VDC Single supply: 5 to 12 VDC
Current Consumption	10 mA or less (At 5 VDC) (100, 200: 20 mA or less)
Cable	See table below.

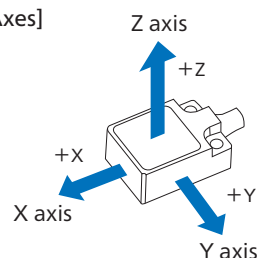
Mechanical Properties

Safe Overloads	See table below.
Transverse Sensitivity	4% RO or less
Frequency Response (23°C)	DC to 500 Hz (Sensitivity deviation: $\pm 10\%$)
Weight	See table below.

Note: The acceleration transducer is subject to a constant acceleration in the direction of gravity, therefore measurement is restricted, taking into account this vertical movement (9.807 m/s²).

Optional Accessories Relay cables TE-55, TE-56 (AMA-A-2/5) (Page 2-129)
Relay cable AMA-A-M-S2K (AMA-A-100/200) (Page 2-129)
Battery box for AMA (Page 2-128)

[Sensitive Axes]



Models	Rated Capacity	Safe Overloads	Weight (Approx.)	Cable (*)
AMA-A-2	$\pm 19.61 \text{ m/s}^2 (\pm 2 \text{ G})$	$\pm 19613 \text{ m/s}^2 (\pm 2000 \text{ G})$	3 g	6-conductor (0.04 mm ²) vinyl shielded cable, 2.5 mm diameter by 5 m long
AMA-A-5	$\pm 49.03 \text{ m/s}^2 (\pm 5 \text{ G})$			
AMA-A-100	$\pm 980.7 \text{ m/s}^2 (\pm 100 \text{ G})$	$\pm 39227 \text{ m/s}^2 (\pm 4000 \text{ G})$	11 g	① Sensor - relay part 9-conductor (0.04 mm ²), vinyl shielded cable, 2.9 mm diameter by 5 m long ② Relay part - connector 20-conductor (0.09 mm ²), vinyl shielded cable, 5.4 mm diameter by 17 cm long, terminated with a connector plug (HR25A-9J-20S)
AMA-A-200	$\pm 1961 \text{ m/s}^2 (\pm 200 \text{ G})$			

(*) Shield wire is not connected to the case.

(*) A relay cable TE-55, TE-56, or AMA-A-M-S2K (optional) is required for connecting measuring instruments.

When using the following items, an external power supply unit is not required.

Models	Battery Box for AMA	Conditioner Cards for EDX Series (Page 3-93)	
		CVM-41A	AD-40AS
AMA-A-2	✓	✓	✓
AMA-A-5	✓	✓	✓
AMA-A-100	✓	✓	
AMA-A-200	✓	✓	



Battery Box for AMA



Acceleration Transducers

Outline

General

Piezoelectric

Gyro