

M-A550AC2x

Accelerometer Sensor Unit CAN Interface

■ GENERAL DESCRIPTION

The M-A550AC2x is high accuracy and high stability 3 axis accelerometer. This sensor unit is based on Quartz technology (QMEMS) for high accuracy, high stability, small size, and low power consumption. This sensor unit enables wide dynamic range acceleration and vibration sensing. Acceleration and tilt angle is available as user selectable output measurement options. This sensor unit uses the latest technology to improve performance and offer wider sensing bandwidth. With Controller Area Network (CAN) interface supported for host communication, the M-A550AC reduces technical barriers for users to incorporate seismic and vibration sensing, and minimizes design resources to implement control and monitoring applications. This unit is packaged in a water-proof and dust-proof metallic case making it suitable for use in industrial and heavy duty applications.

The features of the sensor unit such as high stability, high precision, and small size make it easy to create and differentiate applications in various fields of industrial systems.

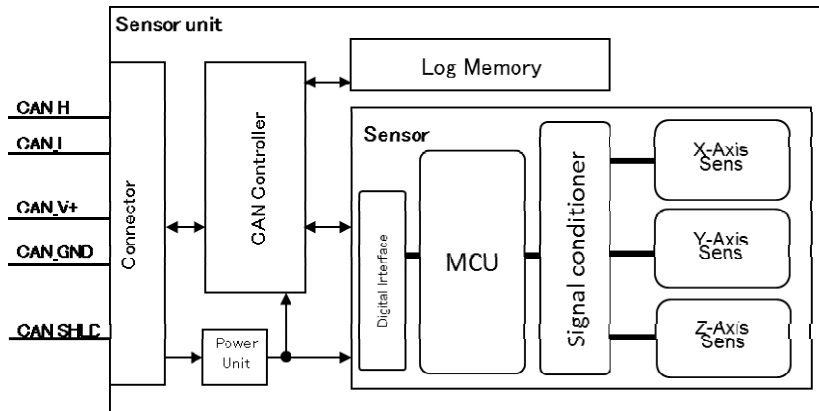


■ FEATURES

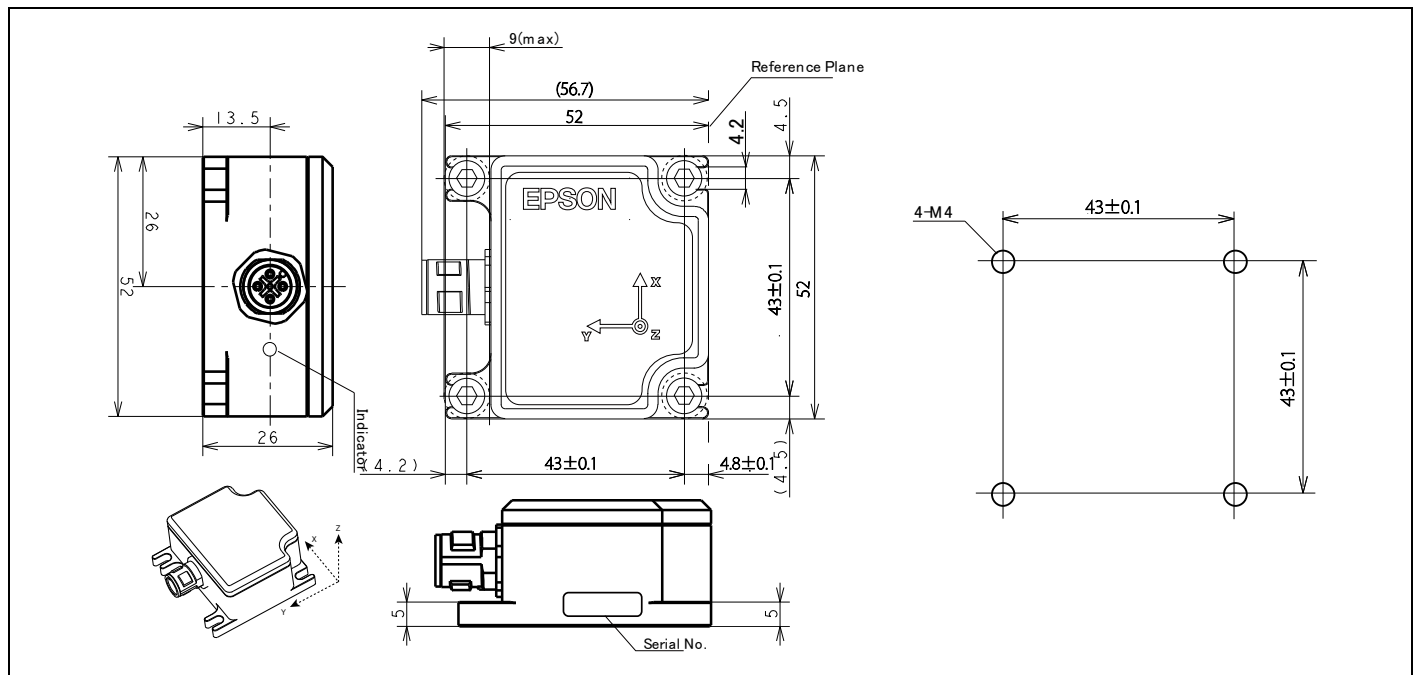
Item	Specification	Note
Sensor		
Specification	Model : M-A550AC2x Integrated Sensor : M-A351AS High-resolution 0.06 μ G Frequency range 50Hz Detection Range \pm 5G (Accuracy Range \pm 1G)	
Interface		
Protocol	CANopen	
Physical layer	ISO11898-2 (High speed CAN)	
Frame format	CAN2.0A	
Profile	DS-301 (Standard profile) DS-404 (Device profile for measuring devices)	
Bit rate	1M/ 800k/ 500k/ 250k/ 125k/ 50k/ 20k/ 10k bps	1Mbps (Default setting)
Node-ID	1 to 127	1 (default setting)
Sampling rate	Max 500 sps (valuable)	
Other function		
Data logging	16,772,864 byte logging (max)	Logging Mode feature
Indicator	Run-LED (Green)/ Error-LED (Red)	Accordance with DS-303-3
Terminator	Not included	Logging Mode feature
General characteristics		
Voltage supply	9 to 30 V	
Power consumption	24 mA typ	Vin=12V
Operating temperature range	-20 to +70°C	
External dimension		
Outer packaging	Overall metallic shield case	
Size	52 x 52 x 26mm (Not including projection.)	
Weight	81g	
Interface connector	CAN connector: 5-pos, M12, water-proof	
Water-proof Dust-proof:	Corresponds with IP67	
Regulation		
CE	CE marking (EN61326/RoHS Directive)	Class A
USA	FCCpart15B	Class A

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■ BLOCK DIAGRAM



■ OUTLINE DIMENSION



(millimeters)

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