Three–Axis Magnetometer (TAM) for Satellite MS-15



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Three-Axis Magnetometer (TAM)

MS-15

- Magnetometer measure magnetic fields of environment.
- 3-axis magnetometers measure values of the x, y and z axes field, and total magnetic field.
- Total field can be measured exactly by accurate orthogonality correction between 3-axis values.
- Sensorpia Co. has has accurate orthogonality correction technologies.
- Magnetometer was developed for scientific satellite and has heritage.



Applications

- Attitude control is important for satellites, and the attitude can be controlled using the earth's magnetic field.
- Magnetic torquers and 3-axis magnetometers are used to control the attitude of satellites.

Characteristic

- It's used to control the attitude of satellites. It has light weight and low power consumption.
- It senses attitude by measuring 3-axis components of the earth's magnetic field.



Specification

	MS-15
Measuring range	± 60 μT
Resolution	0.01 nT at 1Hz
Communication interface	RS-422
Linearity	± 0.1 %
Axis alignment	Max. ± 1°
Bandwidth	10 Hz
Input Voltage	15 ± 2 V
Power consumption	< 1.3 W

Operating environment and Mechanical

Operating Temp.	-40℃ ~ +53℃
Dimension (mm)	35 X 112 X 35 (±0.2)
Total weight (g)	< 250
Coating	Chromate or anodizing
Connector	DEMM9PNMBK52

