Low Drift Three-Axis Flux-Gate Magnetometer

MS-13

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- Magnetometer measure changes of magnetic fields of magnetic objects.
- 3-axis magnetometer measure values of the x, y and z axes field, and total field of magnetic objects.
- Total field can be measured with accurate orthogonality correction between 3-axis values.

- Sensorpia Co. has accurate orthogonality correction technologies.
- Magnetometers manufactured by sensorpia Co. are highly sensitive even underwater. Since the magnetic field is not affected by seawater.

Applications

- It is possible to detect ± 10 nT changes even under unstable attitude conditions.
- It's specially useful for total magnetic field measurement independent of magnetometer attitude changes.

Characteristic

- High-precision magnetic field measurement.
- Detection of objects with magnetic properties.
- High orthogonality between 3-axis with high accuracy.
- Total field measurement.
- Low drift characteristic when power on.

Specification

	MS-13
Measuring axis	3-axis
Input voltage	5 V ± 0.5 V
Power consumption	Max. 2 W
Communication interface	RS-422
Measuring range	± 100 μT
Linearity	± 0.01 %
Orthogonality error	< ± 0.2 °
Low power on drift	< 2 nT during 100 s (Turn on and waiting for 10s)

Operating environment and Mechanical

Operating Temp. (℃)	-10 ~ 55
Dimension (mm)	129.5 X 125 X 55
Total weight (g)	< 1000
Coating	Black anodizing
Connector	MS3112E12-8S