Low Noise & Low Drift Magnetometer

MS-27

SENSORPIA
Magnetic sensors and instruments

Tel. +82-42-933-0877
E-mail: sensorpia@sensorpia.co.kr
www.sensorpia.co.kr
Yuseong-daero 1596-64, Yuseong-Gu,
Daejeon City 34054, Republic of Korea

Low Noise &Low Drift Magnetometer

MS-27

- 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's very useful for the detection of ferromagnetic objects with high sensitivity and long term stability.

Characteristic

- Precise measurement of magnetic field.
- Detection of objects with magnetic properties.
- Ultra low noise three axis flux-gate magnetometer.
- Very low drift magnetometer.

Specification

	MS-27
Measuring axis	3-axis
Input voltage	12 V ± 1 V
Power consumption	< 1.7 W
Communication interface	RS-422
Measuring rate	10 ± 1 Hz
Linearity	± 0.05 %
Orthogonality error	< 0.5 °
Useful frequency range	DC ~ 3Hz
Noise level	5 pT rms/√Hz at 10 Hz

Operating environment and Mechanical

Operating Temp. (℃)	-30 ~ 55
Dimension (mm)	179 (Length) X 50 (Diameter) (±2)
Total mass (g)	< 550
Coating	-
Waterproofing	11 ± 1 bar