

# Low Noise & Low Drift Magnetometer

**MS-27**

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## Low Noise & Low Drift Magnetometer MS-27

Ultra low-noise flux - gate  
magnetometer

The products are very useful for the detection of ferromagnetic object with high sensitivity and long turn stability. This can be applied to the underwater surveillance system.



### Applications

- Precise measurement of magnetic field.
- Detects objects have with magnetic properties.
- Can be used both on land and under water.

### Characteristic

- Ultra low noise three axis flux- gate magnetometer.
- Very low drift magnetometer.



## Specification

MS-27	
Measuring axis	3-axis
Input voltage	12 V $\pm$ 1 V
Power consumption	< 1.7 W
Communication interface	RS-422
Measuring rate	10 $\pm$ 1 Hz
Linearity	$\pm$ 0.05 %
Orthogonality error	< 0.5 °
Useful frequency range	DC ~ 3Hz
Noise level	7 pT rms/ $\sqrt{\text{Hz}}$ at 1 Hz

## Operating environment and Mechanical

Operating Temp.	-
Dimension (mm)	179 (Length) X 50 (Diameter) ( $\pm$ 2)
Total mass (g)	< 550
Coating	-
Waterproofing	11 $\pm$ 1 bar