星天海洋
STARTEST MARINE



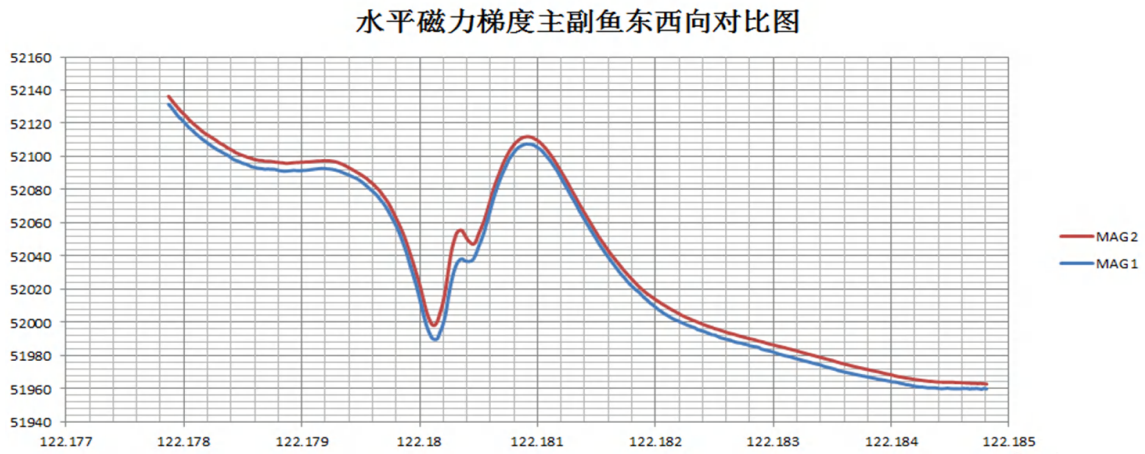
MAG-885
Pumped Magnetometer

[Product Introduction]

The MAG-885 Cesium Optically Pumped Magnetometer is the ultimate solution for metal detection. It consists of a cesium optically pumped sensor towfish, 150-meter coaxial cable, data logging/display software, data processing software, and a built-in altimeter module, enabling large-area rapid and comprehensive searches. The MAG-885 is also ideal for detecting smaller targets such as pipelines, anchors, chains, artillery shells, and dredging heads. It is particularly suited for scenarios where targets are buried on the seabed or where acoustic or underwater camera systems are ineffective

[Product Features]

- **Low cost, high performance**
- **Ultra-long detection range**
- **Data processing software**
- **Data logging & display software**
- **Built-in altimeter module**
- **Optional RS-232 output**
- **150m coaxial cable**
- **2750m operating depth**



[Technical Parameters]

Operating Principle:	Self-oscillating cesium optically pumped (non-radiative)
Operating Range:	10,000–105,000 nT
Operational Coverage:	Global
Sampling Rate:	Up to 50 Hz
Heading Error:	<1 nT (within 360° rotation and tilt)
Absolute Accuracy:	<2 nT
Data Output:	RS232, 1200–19200 baud rate
Towfish Dimensions:	Diameter 7 cm, 1.37 m with tail fin
Weight:	18 kg (in air)
Counter Sensitivity:	0.002 nT/Hz^{rms}
Pressure Sensor:	2000 psi
Operating Depth:	2750 m
Operating Temperature:	-55°C to +70°C
Tow Cable Strength:	Kevlar-reinforced multi-core cable, break strength 3600 lbs
Software:	Records, displays, and prints magnetic field and GPS data at 20 Hz
Power Supply:	24–32 VDC
Upgradable Configuration:	Compatible with 6 km coaxial cable modem; supports transverse or longitudinal gradient measurements.

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