



# HGS (INDIA) LIMITED



## SPECIFICATION SHEET - Overhauser Walking Magnetometer-Gradiometer MaxiMag

### MaxiMag

The World's most advanced and portable magnetometer/gradiometer based on the Overhauser effect. The instrument is designed to measure magnetic field with high sensitivity and absolute accuracy. MaxiMag can be used as a field magnetometer, two- or multi-sensor gradiometer, base station, or observatory magnetometer, or even as a GNSS base and rover with centimeter accuracy in PPK mode.

- Highest precision and sensitivity
- Field magnetometer/gradiometer or base station
- Built-in multi-band GNSS receiver and flashlight
- Keypad for right- and left-handed people
- Lightest in the World
- Li-ion battery included

### MaxiMag



MaxiMag console is fully compatible with SmartMag digital magnetometers and recognizes them as standard digital Overhauser sensors.



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Specifications	
Dynamic range	20 000 to 120 000 nT
Absolute accuracy	0.1 nT
Sensor sensitivity	0.021 nT/ $\sqrt{\text{Hz}}$ rms 0.012 nT/ $\sqrt{\text{Hz}}$ rms (on request)
Resolution	0.001 nT
Gradient tolerance	30 000 nT/m
Sample rates	0.25, 0.2, 0.5, 1, 2, 3 s and longer with 1 s step
Sensor's stability	>10 years
Interfaces	built-in: USB, RS-232, CAN FD optional: Ethernet
GNSS receiver	built-in and optional external
GNSS antenna	built-in and optional external
Internal memory capacity	up to 32 Gb (microSD)
Power	11-16.8 VDC, Li-ion, LiFePo4 or lead-acid battery Optional: 100-240 VAC
Operating temperature	-40 to +60 °C
Li-ion battery	14.6 V, 4 A-h
Flashlight	LED, 300 lumens
Dimensions with connectors	930×125×72 mm – rigid sensor 260×150×45 mm – console
Item weight	1.4 kg – right sensor 1.1 kg – console
Weight of a set	4 kg – magnetometer 6 kg – gradiometer

Ordering Information	
Item Description	HGS Part No.
Overhauser walking magnetometer-gradiometer MaxiMag	MK001509



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