



# HGS (INDIA) LIMITED



## SPECIFICATION SHEET - Cesium Base Station Magnetometer SmartQuantumMag

### SmartQuantumMag

The World's most advanced and portable cesium optical pumped magnetometer base station with sample rate up to 100 Hz. The complete ready to use set with accessories and battery fits in a carry-on size case and weighs only 8.5 kg. SmartQuantumMax can also be used as a part of a multi-sensor gradiometer, or even as a GNSS base and rover with centimeter accuracy in PPK mode.

- High sensitivity
- The World's most compact Cs base station
- Up to 100 measurements per second
- Several SmartQuantumMags can be combined into gradiometer
- Built-in multi-band GNSS receiver with PPK feature



*SmartQuantumMag*



HGS (INDIA) LIMITED  
 158, Sector-4, IMT Manesar, Gurugram-122050, Haryana, INDIA  
 Tel: +91 (0124) 4681800  
 Email: [sales@hgsindia.com](mailto:sales@hgsindia.com) | Website: [www.hgsindia.com](http://www.hgsindia.com)



<b>Specifications:</b>	
Dynamic range	15 000 to 110 000 nT
Sensitivity	0.002 nT/ $\sqrt{\text{Hz}}$
Resolution	0.001 nT
Gradient tolerance	up to 20 000 nT/m
Max sample rates	100Hz
Additional sensors	IMU, compass, barometer
Interfaces	built-in: USB, RS-232, CAN FD optional: Ethernet
GNSS receiver	built-in and optional external
GNSS antenna	built-in and optional external
Display	160×128, OLED
Keypad	6 buttons with backlight
Memory	up to 32 Gb (microSD)
Power	11-16.8 V, Li-ion, LiFePo4 or lead battery optional: 100-240 VAC
Operating temperature	-40 to +60 °C
Dimensions	Ø82×120 mm – sensor 125×100×35 mm – console

<b>Ordering Information</b>	
<b>Item Description</b>	<b>HGS Part No.</b>
Cesium base station magnetometer SmartQuantumMag	MK001554

Version 1.0



HGS (INDIA) LIMITED  
 158, Sector-4, IMT Manesar, Gurugram-122050, Haryana, INDIA  
 Tel: +91 (0124) 4681800  
 Email: [sales@hgsindia.com](mailto:sales@hgsindia.com) | Website: [www.hgsindia.com](http://www.hgsindia.com)

