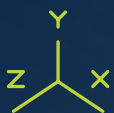




ROSOR ZEPHYR MAG

Zephyr is a ready-to-fly total-field magnetometer system with integrated GPS, 9-axis IMU, onboard logging, wireless link, and an optional vector add-on for survey-grade magnetic data in minutes.



Measurement Capability

Scalar + 3-axis vector
magnetic field



Sensitivity

Scalar: $< 0.003 \text{ nT}/\sqrt{\text{Hz}}$ |
Vector: $< 0.1 \text{ nT}/\sqrt{\text{Hz}}$



Output Data Rate

Up to 1000 Hz (Scalar), 250 Hz
(Triaxial)



Weight

700 g

Technical Specifications

Physical & Electrical

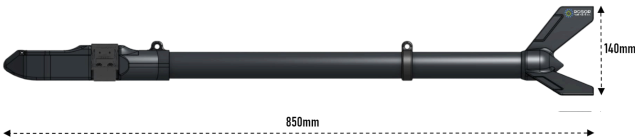
Dimensions	850mm x 160mm x 140mm
Weight	700g
Operating Voltage	+9 - 15 VDC (non-magnetic 3S LiPo recommended)
Average Power Consumption	4 W @ 11 V
Peak Power Consumption	5.5 W @ 11 V
Construction	Polycarbonate
Battery Life	6 hours

Sensor Head

Measurement	Scalar (total field) + three axis vector magnetic field
Sensitivity	Scalar: < 0.003 nT / $\sqrt{\text{Hz}}$ Vector: < 0.1 nT/ $\sqrt{\text{Hz}}$
Dynamic Range	1000 – 150,000 nT typ.
Heading Error	< 3nT uncompensated
Dead Zone	< $\pm 7^\circ$ cone (Triaxial only)
Max Gradient Field	300 nT/cm
Output Data Rate	Scalar: ≤ 1000 Hz Triaxial: ≤ 250 Hz
Operating Temperature	-15 °C to +55 °C

Integrated Modules

Wireless Controller	Bluetooth and wifi enabled micro controller
GNSS	u-blox NEO-M9N
GPS Antenna	SRFG017-100
IMU Sensor	9 -axis accell/gyro/mag/temp: TDK InvenSense ICM-20948



* Specifications are preliminary and subject to change. Performance metrics are estimates based on testing and may vary with configuration and operating conditions. Design, components, and features may differ from final production models.