ProtonScout

Proton Precession Magnetometer

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PRODUCT OVERVIEW

Introducing the **ProtonScout**, the next generation of Geometrics' portable proton precession magnetometers. Building on decades of proven technology, the ProtonScout combines reliable total-field magnetic measurements with wireless connectivity, GPS navigation, and intuitive software for efficient magnetic surveying.

Designed for professionals and first-time users alike, the ProtonScout simplifies data acquisition through the MagNav Android application. Users can configure surveys, monitor magnetic readings, and navigate survey routes wirelessly.

Continuous and discrete measurement modes, flexible power options, and stand-alone data recording provide versatility across a wide range of field applications.

APPLICATIONS

The ProtonScout is ideal for geological mapping, mineral exploration, and locating buried ferrous objects in industrial, environmental, and archaeological investigations. Its straightforward operation and economical design make it equally suited for professional surveys, academic research, and field training.

With GPS-based navigation, flexible measurement modes, and streamlined data management, the ProtonScout delivers a practical solution for modern magnetic surveying.

FEATURES & BENEFITS

- **Proven Proton Precession Technology** – Reliable total-field measurements using established proton precession technology.
- **Auto Tuning** – No more manual tuning. The system tunes itself as the field changes.
- **Integrated GPS** – Georeference magnetic measurements and navigate survey routes.
- **Wireless Operation** – Control surveys and collect data via Wi-Fi using a tablet running the MagNav app.
- **Versatile Data Collection** – Continuous and discrete measurement modes for flexible surveying.
- **Flexible Power Options** – Rechargeable Li-Po batteries or external 12 V power for extended operation.
- **Legacy Upgrade Kits** – G-856 and G-857 owners can keep their sensor and upgrade their workflow.



SPECIFICATIONS | ProtonScout Proton Precession Magnetometer

MAGNETOMETER

Operating Principle: Proton precession;
Total-field scalar magnetometer

Absolute Accuracy: 0.1 nT

Resolution: 0.001 nT

Noise/Sensitivity: 0.15 nT rms at 1s sample period

Dead Zone: Single polar dead zone; +/- 45 degrees

Gradient Tolerance: 7,000 nT/m

Dynamic Range: 19,000 nT to 110,000 nT

Sample Rate: 20s, 10s, 5s, 4s, 3s, 2s, 1s*, 0.5s*
**1s and 0.5s sample rates enabled for ProtonScout Rover*

Output: Wi-Fi

Data Storage: Internal 32GB micro-SD card

GPS Accuracy: 50% CEP < 3 meters

Console/Display: Getac Tablet* or user-supplied Android device
*included with ProtonScout Rover

Weight: 7 lbs. (13 lbs. with internal battery and backpack)

Operating Temperature: -20 °C to +50 °C (-4 °F to +122 °F)

Storage Temperature: -45 °C to +70 °C (-49 °F to +158 °F)

Power: 11 to 20 VDC; 6 W (12V) at 1 Hz

Battery: *Li-Po 6000 mAh to 7000 mAh 14.8V 4S XT-60 Connector

**Battery sold separately*

ACCESSORIES

Standard:

- **Rover:** Transport case, backpack, AC power adapter, tablet and chest harness, MagNav app (high sample rate enabled), USB drive with Survey Manager and manuals
- **Base:** Transport case, tripod base and posts, AC power adapter, external battery cable, USB drive with MagNav app, Survey Manager and manuals

Optional:

- Li-Po battery & charger, tablet, chest harness, calibration certificate



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