

### PMG-2 PORTABLE PROTON GRADIOMETER

Make Your Survey Easy and Successful



#### APPLICATIONS

- Environmental studies
- Buried pipes location
- Ferrous ordnance detection
- Mineral exploration
- Archaeology

#### STANDARD COMPONENTS

- Console with Built-in Battery
- Two Sensors with Six Sensor Sticks
- Anchor Ring with Ropes & Tent Pins
- Harness, Battery Charger
- Transport Case & Instruction Manual
- Communication SW on USB FLASH



#### SPECIFICATIONS

Measuring range	20 000 to 100 000 nT
Resolution	0.01 nT
Sensitivity (AUTO, MANUAL, WALK @ > 1.5s)	0.2 nT
Absolute accuracy	±0.5 nT
Maximum gradient value	1 000 nT/m
Measuring cycle	ca 0.5 s
Triggering	Manual, automatic in AUTO and WALK mode
Data memory	1,800,000+ readings
Universal Serial Bus (USB)	
Power supply	Non-magnetic li-ion battery 14.8 V / 6 Ah, extensible to 14.8 V / 12 Ah
Battery lifetime	10 000 readings in GRAD operation
Processing unit	
Dimensions	230 x 80 x 170 mm
Weight	2 kg, including battery
Sensor	
Dimensions	dia 80 x 200 mm
Weight	0.7 kg
Operating temperature range	- 10 to 60 °C

For more details about the products go to our web or send us your request by email

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**SatisGeo**

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#### DESCRIPTION OF OPERATION

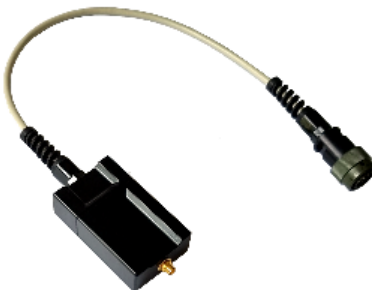
Proton Gradiometer PMG-2 is a portable instrument intended for ground measurement of the absolute value of the magnetic induction vector of the Earth's magnetic field by measuring the frequency of the precession of hydrogen nuclei protons. Data recording is fully automated. In survey applications actual position coordinates are recorded either by automated incrementation or by operator entry commands. The gradiometer can be powered by external power source, namely in the base station mode.

The PMG-2 allows measuring triggering in three modes.

1. **MANUAL** - mode is used in a profile magnetic survey on a grid. Based on sensor configuration, single or gradient measurements are possible.
2. **WALK** - mode continually measures the magnetic field based on sensor configuration in intervals 0.5s, 1s, 1.5s, 2s, 2.5s, and 3s. The sensor configuration, single or gradient measurements are also possible. The measurements in this mode can be burdened with a more significant error than in MANUAL or AUTO measurements.
3. **AUTO** - mode allows repeated measurements with one sensor in set time intervals. Both the starting time and the length of the intervals can be set before the measurements. This mode is used for measuring diurnal variations in the Earth's magnetic field.

#### SatisGeo PMG-2 External GPS

- Pole mounted GPS antenna or
- Cap with antenna



#### SatisGeo GPS specification

Accuracy		GPS	GLONASS
	Position	2.5 m CEP	4.0 m
	SBAS	2.0 m CEP	n.a.

For more details about the products go to our web or send us your request by email

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