

GAIA-FIELD 1.2

Advanced MEMS Gravimeter with Automatic Gimbal.

GAIA-FIELD offers previously unheard-of benefits for practical field gravimetry.

- Highly robust and proven resonant MEMS sensor
- Automatic remote gimbal levelling with 12° tilt range
- Exceptionally robust, compact and portable
- Remote operation using any smart device is faster and reduces local vibration and tilt effects from operators
- **NEW 1.2 Features**
 - Enhanced gimbal range $\pm 12^\circ$
 - Enhanced operating range to 50 °C
 - Multi-band GNSS with external antenna
 - Alpha correction: stable linearity <6 h after power-on



Trenching &
Excavation
Planning



Detect & Map
Buried
Infrastructure



Geophysics &
Environmental
Monitoring



Earth Observation
& Climate
Monitoring

Key features

- | High Sensitivity: $<0.01 \mu\text{Gal}$ resolution & $5 \mu\text{Gal}$ standard deviation at 60-120s
- | Automatic Levelling Gimbal: $\pm 12^\circ$ tilt range
- | Rapid Measurements: Instrument levelled and reading in as quick as 10s
- | Compact & Portable: 5.2 kg total weight, hand carried, any orientation
- | Rugged & Reliable: IP68 (closed), IP65 (open), proven in the field.
- | Flexible: Battery & USB powered, Wi-Fi, USB-C connectivity



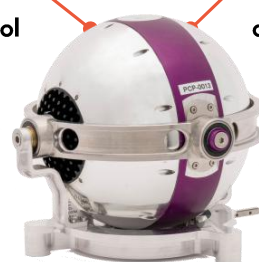
GAIA Physics Core

At GAIA-FIELD's heart, the Physics Core maximizes our MEMS performance in real-world applications.

- Outstanding long-term stability
- Highly repeatable measurements
- Faster startup, stabilization and measurement
- Highly robust in transport and field conditions

Vacuum-sealed SMG
VBA MEMS sensor with
precise thermal control

Advanced digital
resonance tracking unit
and low noise electronics



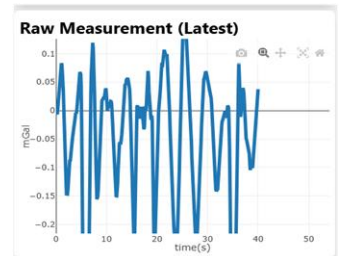
GAIA-FIELD

Market leading sensitivity with enhanced portability, automation and connectivity.

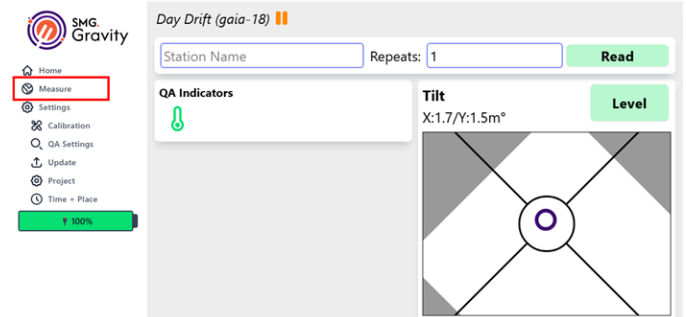
GAIA-FIELD 1.2 Specifications

Sensor Type	SMG VBA Resonant MEMS
Reading Resolution	<0.01 μ Gal
Standard Deviation	<5 μ Gal @ 60-120 seconds
Measurement Range	+/- 2000 gal (+/- 2 g)
Operating Range	-40 °C to +50 °C
Residual Drift	<5 μ Gal / 6 hours
Tares	<2 μ Gal for shocks up to 50 g
Automatic Levelling	+/- 12 ° range to <2 m° accuracy
GNSS	Multi-band high-precision GNSS for up to 1 cm position (condition dependent)
GNSS Antenna	Surface-mounted multi-band active antenna
Rapid deploy base	Robust static ground plate +/- 15 ° levelling
Onboard Corrections	Tide, instrument tilt, temperature, drift Alpha correction
Connectivity	USB-C, Wi-Fi
Data output rate	20 Hz via CSV export
Data storage	Onboard storage with real time access 2x SD card for triple redundant backup
Battery Life	20-24 hours at 10-30 °C
Battery Type	2x hot swappable 6.8 Ah Lithium Ion
Weight	5.2 kg including tripod
Dimensions (mm)	270 w x 246 d x 180 h

**Real time data,
project planning,
calibration and
analysis via any web
enabled device**



Live reading display



Automatic levelling and virtual spirit level

Designed for Real World Field Surveys

Market leading sensitivity with enhanced portability, automation, and modern connectivity, make GAIA-FIELD an ideal solution for terrestrial gravity surveys.

- In system or external battery charging
- Separate Static Levelling Base for uneven or unstable ground
- Automatic gimbal for fine adjustment with live tilt via user interface
- Hot swap batteries with live battery status
- Internal GNSS for PPK (RTK via future software update)



GAIA-FIELD 1.2
with active GNSS antenna

GAIA-FIELD System Contents

- GAIA-FIELD 1.2 Gravimeter
- GAIA-FIELD Ground base plate
- 2x Rechargeable Battery Packs
- Standalone Battery Charger
- GAIA Field USB-C Charger
- Optional Full System Transport Peli Case

Specifications are subject to change without notice (GAIA-FLD1.2 DS.26.7 v1.0)



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