

GAIA-FIELD 1.1

Quick Start Guide GAIA-FIELD

This quick start guide will help you setup and use your GAIA-FIELD Gravimeter.

Topics Covered

1. First start, Battery Charge and Install
2. Power Up and Standby
3. Wi-Fi Connectivity
4. Create a Project and Take Measurements
5. Data Analysis & Export
6. Best Practice

Please review the GAIA-FIELD 1.1 Product Support page scanning the QR code on the right



Battery
Setup



Power Up &
Standby



Connectivity



Take
Measurements



Data Analysis &
Export



Scan to connect to
GAIA WiFi



Scan to access WiFi
User-Interface

Scan to access
Product Support

First Start

- | GAIA-FIELD will arrive with **discharged batteries**
 - | Remove a battery and charge for ~30 minutes in the supplied **Inspired Energy Smart Charger**
 - | Raise the battery compartment lock to remove or replace batteries
 - | Re-install the battery and power up the unit with a long press on Power Button
 - | Connect the Dell Charger to the GAIA-FIELD Power USB – GAIA-FIELD will charge both batteries
 - | Leave the GAIA-FIELD for ~24 hours to warm up and stabilize
- NOTE: The Dell charger will NOT power up and charge the device batteries if they are fully drained.**

Power Up and Standby

- | Power On / Off using a long (>3 s) press on the power button
- | Enable or disable standby mode with a short (<3 s) press on the power button
- | Full power up cycle takes 1-2 minutes

WARNING: The GAIA-FIELD requires 12 hours warm up time before stable measurements can be achieved



Quick Start Guide

Wi-Fi Connectivity

- | Scan the 'Connect' QR code or select GAIA WiFi on your device using password **S1lic0n46**)
- | Ensure your smart device is connected to the correct Wi-Fi eg GAIA <Serial>
- | Scan the Control QR code or enter <http://192.168.9.1> to control the GAIA-FIELD
- | Multiple smart devices can connect to a single GAIA-FIELD

NOTE: Each GAIA-FIELD has a unique Wi-Fi connection

Scan to connect to
GAIA WiFi



Scan to access WiFi
User-Interface



Scan to access
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Calibrate your device (Calibration Menu)

- | Once thermally stable, under calibration select Start Tilt Calibration (~7 mins).
- | Once complete click **Apply Tilt Cal**
- | Next perform a Drift Calibration (6-12 hours). Place the unit stable and quiet during calibration
- | Stop the Drift Cal with the stop button and select **Calculate Drift Calibration**
- | Confirm suitable calibration and click **Apply Drift Cal**

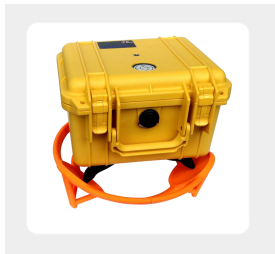
Start a Project and Take Measurements

- | Start a new project or load an existing project to take measurements via the **Home** menu
- | Enter your Lat / Long and Elevation – which are used for tidal corrections
- | Use the **Project Settings** menu to change station time and project location data if required

To take a Gravity Measurement



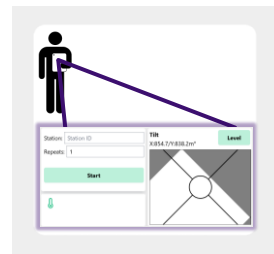
Place the **Static Levelling Base** firmly on the ground



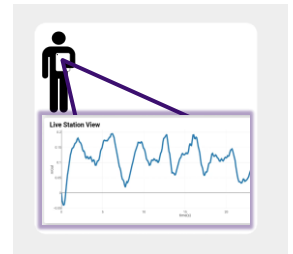
Place **GAIA-FIELD** on **Static Levelling Base**



Step away to avoid local vibrations & tilt effects

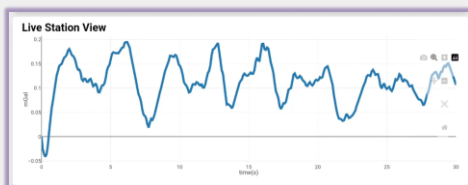


Enter **Station ID, Repeats** & select **Start** to **Auto-Level & Measure**

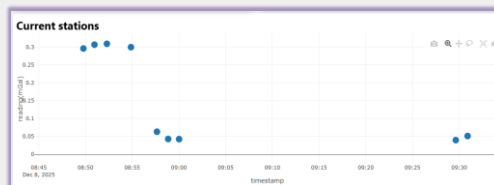


Scroll down to view live measurement and summary results

Data Analysis & Export



Live Measurement Chart
Shows live data during a measurement



Current Stations Summary
Shows measurement value vs time for all project measurements

TIME	NAME	VALUE	STDEV	STDERR
7:24:30 AM	High	726627.907	0.082	0.015
7:25:42 AM	High	726627.920	0.088	0.016
7:26:54 AM	High	726627.905	0.412	0.075
7:29:47 AM	floor	726628.185	0.087	0.016
7:30:59 AM	floor	726628.185	0.101	0.018
7:32:15 AM	floor	726628.190	0.087	0.016
7:54:55 AM	Floor demo	726628.209	0.070	0.013
7:56:13 AM	Floor demo	726628.217	0.089	0.016
8:49:47 AM	Floor	726628.202	0.103	0.019
8:50:59 AM	Floor	726628.202	0.093	0.016

Results Table
Measurement summary data from all project measurements

- | **Export Data** using the **Export** buttons below the results table. Exported data is downloaded directly to your device.