



ZSM-6 Digital Gravimeter



The ZSM-6 Digital Gravimeter features a state-of-the-art quartz elastic sensor system, leveraging cutting-edge technology for precise gravity acceleration measurements. It is equipped with high-precision constant-temperature measurement, inclination measurement, low-noise circuit processing, and intelligent data processing technologies. Besides, this instrument has a wide range of applications including gravity surveys, regional measurements, oil exploration, military surveying, geodesy, and earthquake monitoring.

Main Features

- **High Precision:** Boasting improved precision compared to mechanical gravity meters, expanding its range of applications.
- **Digitalization:** Enabling automatic collection, processing, display, recording, and file output of gravity data.
- **Intelligentization:** Automatic correction of parameters (drift, tilt, temperature, solid tide, noise filtering) is facilitated.
- **User-friendliness:** With a touch screen and physical buttons, it can greatly improve work efficiency.
- **Portability:** Portable and suitable for fieldwork in complex terrains such as hilly and mountainous areas.

Specifications

- Sensor Type quartz flexural sensor
- Reading Resolution 0.1 uGal
- Observation Precision <0.005 mGal
- Minimum Direct Reading Range ≥ 8000 mGal
- Residual Long-term Drift ≤ 0.02 mGal/day
- Automatic Data Correction Solid tide, drift, temperature, inclination and noise filtering
- CPU Industrial-grade embedded processor
- Graphic Display 5.7-inch color LCD with a resolution of 640×480
- Data Output Interface USB2.0, RS232, LAN, customizable Bluetooth, WIFI or 5G communication
- BDS (Beidou)/GPS Dual-mode Positioning Module Offering low power consumption and anti-interference properties with a positioning accuracy of 5m and is embedded in the panel
- Memory Dual backup mechanisms for data and expandable memory support
- Power Lithium battery pack with a total capacity of 15.6Ah, supporting hot swapping and car adapter
- Continuous Working Time ≥ 14 h at an ambient temperature of $25^{\circ}\text{C} \pm 2^{\circ}\text{C}$
- Single Measurement Time ≤ 5 minutes.



Specifications

- Temperature range -40°C~45°C
- Humidity ≤95%.
- Weight (excluding tripod) <8kg
- Size (excluding tripod) 270mm×230mm×315mm
- Packing Size 570mm×430mm×490mm
- Total Weight (packing box and instrument included) 28kg

