

Portable Double Triaxial Magnetometer MAGWALK



Applications

- Survey & field studies
 - Mine exploration / tracking / monitoring
- Generate custom gradients by holding upright

Features

- Autarkic system with two sensors, GPS, accelerometer and battery
- 1,600g carrying weight
- 8GB internal memory card
- 250 Hz recording rate
- 2 Hz live data output
- USB interface
- Data processing tool

The MagWalk is an ultra light weight portable magnetometer survey kit to be carried by one person by holding it transversely, longitudinal or upright aside the body.

The kit consists of a two built-in 3-axis Fluxgates, a 1-button data logger with internal SD card, rechargeable batteries, an integrated or external GPS as well as a serial live data output.

The MagWalk device is made for small and mid size field surveys.

Combining the MagWalk with the SENSYS Remote Smartphone App allows 2 Hz live readings of all single axes of the sensors as well showing absolute values and graphs for in-situ trials / investigations.

The MagDrone DataTool can be used to download and convert the raw data into various formats to make a follow up processing with SENSYS MAGNETO, MATLAB, GIS or other software as easy as possible.

MAGWALK: TECHNICAL DATA

General Technical Data

Power Supply	11.1 V; 1,950 mAh Li-Ion re-chargeable
Operating Temperature	-20°C to +50°C
Weight / with Li-Ion battery	1,470g / 1,600g
Overall power consumption	500 mA
Sensor tube dimensions (W x D x H)	1,070 x 24 mm

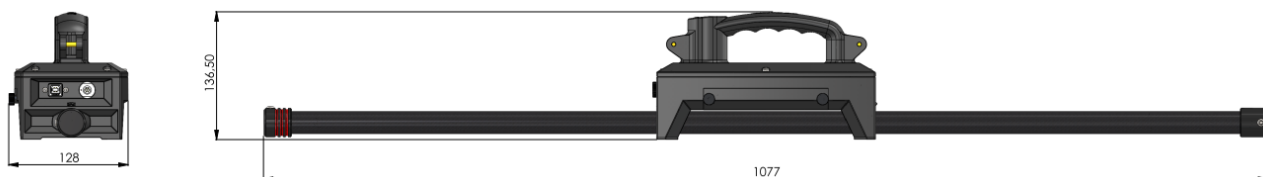
FGM3D/100 Fluxgate

Number and orientation of sensors	2 pieces, laid horizontal, parallel
Specified measurement range	±100,000 nT (higher ranges on request)
Number of sensor axis	3
Distance between sensor centre points	1,000 mm
Noise level @1Hz [pT/ (Hz)]	10 pT < sensor M1 < 50 pT* 10 pT < sensor M2 < 30 pT

Datalogger

Power	50 mA
Sensor input	Internal wired
User Interface	On/Off + Start/Stop button; status LED
Survey mode	Recording when start/stop pressed
Sampling rate	250 Hz (500Hz/1000Hz available on request)
Live data output	2 Hz (via Bluetooth)
Internal memory	8 GB
Datalogger dimensions (W x D x H)	230 x 128 x 43/73 mm
External GPS input via serial cable	

*due to closer proximity to active components on electronics board



MAGWALK: STANDARD SET AND OPTIONS

Standard package

MagWalk	Sensor tube, 2 pcs. built-in FGM3D/100 sensors, data logger (fixed to tube), handle, 2 pcs. rechargeable batteries
Rugged case (W x D x H)	1120 x 290 x 110 mm
Internal GPS	U Blox PAM-M8Q
Peripherals	Data transfer cables (USB), wall charger, accessory bags, USB memory stick with software
Documentation Software	Certificate, manual, quick guide SENSYS Remote App, MagDrone DataTool
Live output	Internal Bluetooth device

Optional accessories

Data processing	MAGNETO [®] Software
External RTK DGPS	NMEA output based GPS Rover
GPS cable	For connection of an external GPS