SENSYS®
Magnetometers & Survey Solutions

TDEM Area Survey

EMD2.2

Features

- Active metal detection system for area surveys
- Size of coil: 1.25 x 0.8 m
- Rugged and counterbalanced
- Lightweight, dismountable carrier frame with integrated transmitter and receiver coils
- 3-channel data logging for high resolution, 4 time gates
- 0-10,000 mV measurement range
- 10” Windows tablet for data logging with DGPS input
- MAGNETO® software for data processing
- Max. coverage/ hour: 0.25 ha

The EMD2.2 is an active, highly sensitive system for middle sized area surveys using the TDEM („Time Domain Electro-magnetics“) method in order to detect metals in the ground.

It is made for high precision electromagnetic cartographies of small and middle sized areas in order to support UXO and EOD teams, geophysicists or archaeological surveys.
The EMD2.2 comes with three pairs of differential coils giving a higher resolution for optimized identification of single objects.
Measurement data is being digitized and logged with the compact EMD2.2 electronics.

The rugged tablet with DGPS connection can be used in order to allow free navigation in field, straight display of survey lines and a geo-referencing of the data. It is also possible to use the system without a GPS as well.

Data processing and interpretation will be done on a PC equipped with the SENSYS MAGNETO® software.
The whole EMD2.2 system is lightweight designed and easily dismountable, but made for heavy duty use in the field.

Areas of Application

- detection of ammunition
- detection of utilities

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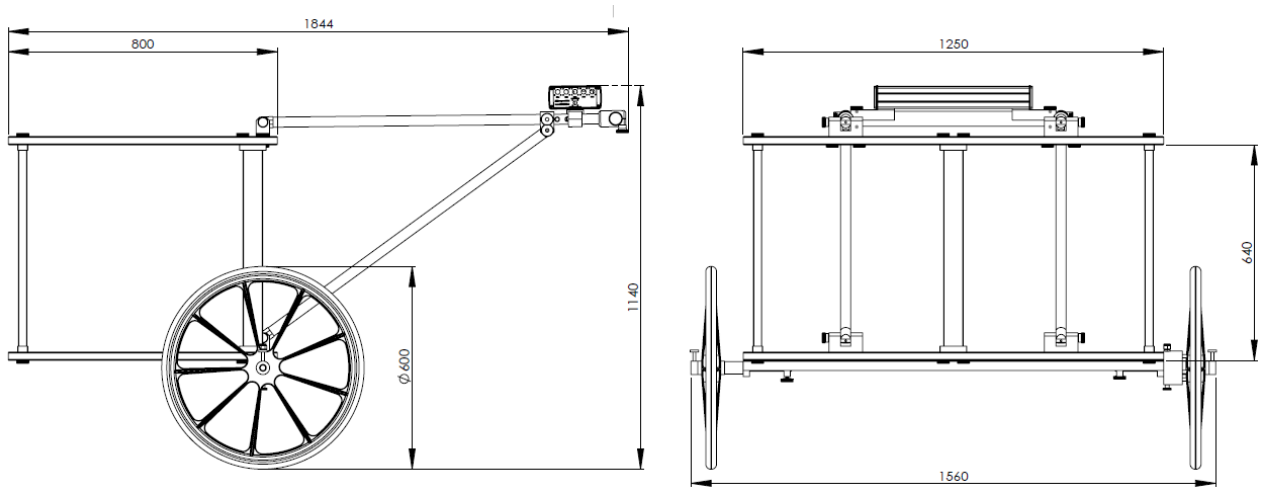
Technical Data EMD2.2

General technical data	
Power supply	12 V lead gel battery
Total weight of system (with wheel set)	approx. 20 kg
Dimensions of frame	
Length	approx. 2 m
Width (incl. Wheel set)	approx. 1.6 m
Height (incl. wheel set)	approx. 1 m
Sensor system EMD2	
Coils	1 transmitter coil (bottom) 3 receiver coils (bottom) 3 receiver coils (top)
Size of coil (transmitter coil)	1.2 x 0.8 m
Size of coil (receiver coil)	0.4 x 0.4 m
Measurement configuration	
Pulse frequency	Ca. 610 Hz
Measurement range	0-10,000 mV
Vertical distance of coils	0.64 m
Survey swath width	1.2 m
Coverage per day	ca. 10,000 m^2
Time gates	4



Dimension EMD2.2

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