

Magnetic Survey System **MAGNETO[®] MX**



Features

- vehicle towed system with non-ferrous carrier
- survey with 8 or 16 magnetometers on array width of 2 or 4 m
- Vertical difference magnetometer with a measurement range of $\pm 8,000$ nT / $\pm 10,000$ nT
- MXcompact unit for data acquisition and acquisition of coordinates
- RTK DGPS for position accuracy of ± 1 cm
- rugged tablet PC for storage and processing of measurement data
- MAGNETO[®] software to process all measurement data
- maximum daily coverage of 25 ha

MAGNETO[®] MX is a vehicle towed measurement system for large area surveys in order to detect ferromagnetic objects and signatures in the ground.

The carrier can be extended to a maximum width of 4 meters, carrying up to 32 probes. Thus a maximum daily coverage of 25 ha can be reached, depending on terrain conditions, number of magnetometers and array width.

Due to the off-road design of the carrier and the high flexibility in configuration, the MAGNETO[®] MX system is being used in the fields of UXO detection, geophysics, and archaeology as well as for surveys of contaminated sites.

In order to reach a positioning accuracy of ± 1 cm for the measurement data, the MX

system is equipped with a RTK DGPS. The GPS rover station is mounted to the car while the GPS base station (reference point) is set next to the measurement area.

The MXcompact box digitizes the measurement data and transmits them together with the synchronized GPS coordinates directly to the tablet PC.

The data acquisition software MonMX displays the current data and coordinates on the tablet PC as measured curves and GPS tracks.

Additional Equipment

- closed and lockable trailer for transporting the measurement system
- DGPS back pack

Technical Data MAGNETO[®] MX

General Technical Data	
Power Supply	12 V battery pack (lead gel)
Dimension of MX-Carrier	
Length	ca. 6.7 m
Width	ca. 2 m
Width with extensions	ca. 4 m
Height (incl. GPS antenna)	ca. 1.3 m
Weight	128 kg
Measurement configuration	
Distance between probes	0.25 m / 0.5 m
Array widths	2 m / 4 m
Sensor above ground level	0.1 .. 0.4 m
Sensors	
FGM650/10	Measurement range of $\pm 10,000$ nT
FGM650/3	Measurement range of $\pm 8,000$ nT
Data acquisition	
Analog input	32 channel, ± 4 V
Output	MonMX 3, 16bit
Position accuracy	± 1 cm (with RTK DGPS)
PC interface	USB, indirect-coupled
Area coverage	
Maximum daily coverage	25 ha