

MULTICAT 4.850

Probe carrier system for large-area survey



Fast probing of large areas

The FOERSTER MULTICAT 4.850 is a powerful and robust probe carrier specially designed for fast and precise large area probing. Being able to accommodate up to 8 FEREX probes, it is capable of probing large areas in a short time and providing high quality data.

The use of probes from the FEREX product family ensures high measurement accuracy and reliability. In combination with the DATAMONITOR 4 navigation software, measurement data can be easily and accurately recorded and evaluated.

All in all, the FOERSTER MULTICAT is the ideal solution for large area probing in various fields of application such as explosive ordnance disposal, geology and geotechnics.

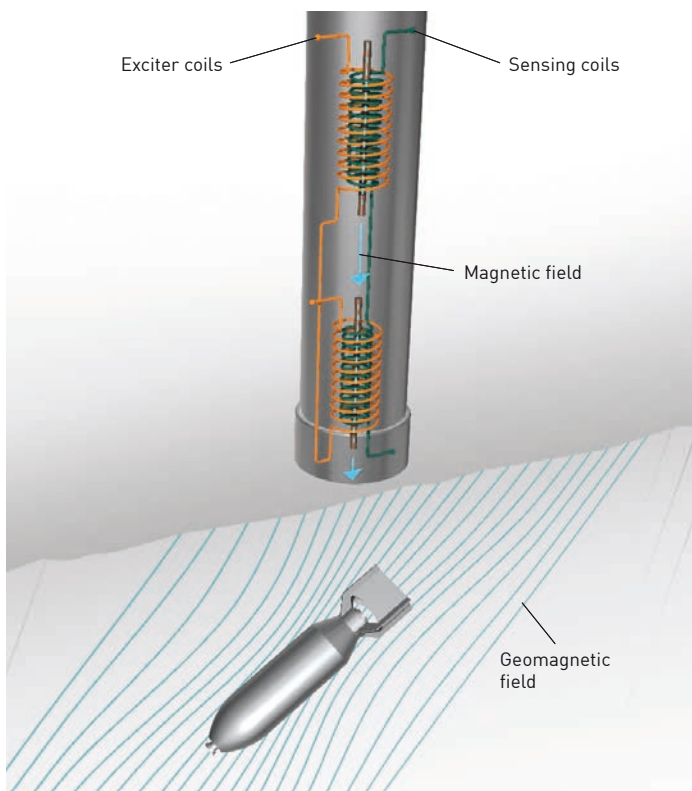
Benefits

The benefits

- **Robust system:** suitable for almost any soil and weather condition.
- **Recording of geo-referenced magnetometer data**
- **Track width:** 2 m.
- **Probe distance:** 0.25 m or 0.5 m.
- **Area coverage:** up to 2 hectares per hour with the basic equipment.
- **Designed for the off-road capability** of a four-wheel drive vehicle.
- **Real-time magnetic field map:** in conjunction with PNC and Datamonitor 4.



Operation principle



Passive magnetometer methods

These methods are ideal for detecting ferromagnetic metals. Highly responsive passive sensors measure the Earth's homogeneous magnetic field and accurately recognize any disturbances in this field caused by nearby ferromagnetic components.

The position, orientation and mass of the metal object are determined by analyzing the anomalies in the magnetic field. These can be recorded or sent as acoustic or optical alerts to the operator, who then uses them to locate the object.

Since soils and infrastructure elements also carry their own magnetic signatures, highly sensitive magnetometers can be used in the context of archaeological and geological surveys. A distinction is made between absolute probes, which display the Earth's magnetic field including possible anomalies, and differential probes, which neutralize the Earth's magnetic field and display only the effect of the magnetic anomaly. FOERSTER supplies highly sensitive (flux-gate) magnetometer probes in both absolute and differential arrangements.

Technical data

MULTICAT 4.850

Dimensions	5.1 x 2.5 x 0.9 m (L x W x H)
Dimensions (packed for shipping)	2.3 x 0.9 x 1.3 m (L x W x H)
Weight	approx. 150 kg
Recommended maximum travel speed	10 km/h (7 mph) Higher speed possible – can cause higher wear and tear of axle bush depending on operation environment.
Track width	2 m
Number of probes	4 with probe to probe distance 0.5 m (track width 2 m) 8 with probe to probe distance 0.25 m (track width 2 m)

Probe FEREX MG-10-550

Probe technology	Fluxgate gradiometric probe
Bandwidth	230 Hz
Noise	<1 nT pp
Protection grade	IP 68, 100 m with optional sealing plug

FEREX PNC

Controller technology	FEREX 4.034 with 24 bit ADC
Number of probes	1 – 8 probes with one FEREX PNC
Sampling rate	300 Hz per probe
Power supply	12-24 V DC Battery operation: Battery pack 7,2 V
Protection grade	IP 65

Differential GPS – various manufacturers

Data protocol	NMEA 0183
Accuracy	RTK FIX

Worldwide sales and support offices



Headquarters

- Institut Dr. Foerster GmbH & Co. KG, Germany

Subsidiaries

- FOERSTER Tecom, s.r.o., Czechia
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