FOERSTER

MULTICAT

Large area detection system for vehicle-based large-area surveys

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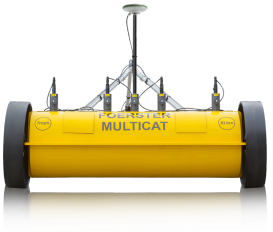

Fast and systematic surveying of large areas. The FOERSTER MULTICAT 4.850 is a robust, non-magnetic probe carrier designed for fast and precise large-area surveys. The all-terrain system is towed by a suitable vehicle and can be equipped with up to eight FEREX MG-10-550 probes. With a fixed track width of 2 m, it enables efficient surveying of large areas.

Depending on the required measurement point density, the MULTICAT can be configured with four probes at a spacing of 0.5 m or eight probes at a spacing of 0.25 m. With the standard configuration, an area coverage of up to 2 hectares per hour can be achieved.

In combination with FEREX PNC and DATAMONITOR 4, magnetometer data is recorded with geo-referenced position information and can be visualized as a magnetic field map during the survey. The open GPS interface enables the integration of systems from various manufacturers.

Thanks to its robust design and high off-road capability, the MULTICAT is suitable for demanding large-area projects, including UXO detection as well as geological and geotechnical surveys.

YOUR ADVANTAGES AT A GLANCE

High area coverage: Surveying of up to 2 hectares per hour with the standard configuration

Flexible measurement density: Choice of 4 probes at 0.5 m spacing or 8 probes at 0.25 m spacing with a 2 m track width

Robust probe carrier system: All-terrain design for vehicle-based large-area surveys

Geo-referenced data acquisition: Precise positioning of magnetometer data using differential GPS

Real-time visualization: Display of magnetic field data during the survey with FEREX PNC and DATAMONITOR 4

High survey speed: Recommended speed of up to 10 km/h for efficient area coverage

TECHNICAL INFORMATION

DIMENSIONS (L × W × H):	5.1 × 2.5 × 0.9 m
DIMENSIONS (PACKED):	2.3 × 0.9 × 1.3 m
WEIGHT:	Approx. 150 kg
RECOMMENDED MAXIMUM SURVEY SPEED:	— 10 km/h (7 mph) — higher survey speeds possible*
TRACK WIDTH:	2 m
NUMBER OF PROBES:	— 4 at 0.5 m probe spacing — 8 at 0.25 m probe spacing
PROBE:	FEREX MG-10-550
PROBE TECHNOLOGY:	FOERSTER gradiometer probe
PROBE BANDWIDTH:	230 Hz
PROBE NOISE:	< 1 nT pp
PROBE PROTECTION GRADE:	IP68, up to 100 m with optional sealing bell
DIFFERENTIAL GPS:	Systems from various manufacturers
GPS DATA PROTOCOL:	NMEA 0183
GPS ACCURACY:	RTK FIX
CONTROLLER TECHNOLOGY:	FEREX 4.034 with 24-bit ADC
NUMBER OF PROBES PER FEREX PNC:	1–8
RECORDING RATE:	300 Hz per probe
POWER SUPPLY:	12–24 V DC
BATTERY OPERATION:	7.2 V battery pack
FEREX PNC PROTECTION GRADE:	IP65

* Depending on the operating conditions, higher survey speeds may result in increased wear of the axle bushings.

ACCESSORIES

FEREX PNC
Modular magnetometer network for large-area surveys on land and underwater

DATAMONITOR 4
Software for survey preparation, navigation and data recording for multi probe systems

FOERSTER

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The FOERSTER Group is represented by subsidiaries and representatives in over 60 countries worldwide. You can find a complete overview on our website.

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