

FEREX PNC

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



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Scalable surveying for large areas. The FEREX PNC is a modular magnetometer network designed for systematic large-area surveys. Depending on the configuration, up to 16 FEREX MG-10-550 probes can be networked, enabling fast and reliable surveying of large areas on land, on water and underwater.

The modular design allows the system to be flexibly adapted to different project requirements. Probe spacing and track width can be selected according to the application. With a recording rate of 300 Hz per probe, the system is designed for high survey speeds and efficient area coverage.

DATAMONITOR 4 software is used for navigation and data recording. Survey areas and tracks can be defined in advance in the office or directly in the field. During the survey, probe data is displayed in real time and recorded together with position data. The open GPS interface enables the integration of systems from various manufacturers.

By combining FEREX 4.034 control units, MG-10-550 probes and DATAMONITOR 4, the system can be configured to meet the requirements of each survey. Recorded data can subsequently be transferred to DATA2LINE software for further evaluation.

YOUR ADVANTAGES AT A GLANCE

Scalable magnetometer network: Networking of up to 16 FEREX MG-10-550 probes for efficient large-area surveys

Flexible area coverage: Variable probe spacing and track width for adaptation to different project requirements

High area coverage: Recording rate of 300 Hz per probe for fast and precise surveys

Versatile operation: Designed for surveys on land, on water and underwater

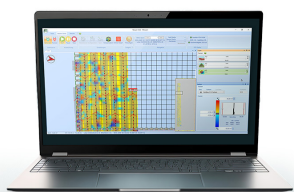
Geo-referenced data acquisition: Open GPS interface for integration of different systems and precise position referencing

Efficient data acquisition: DATAMONITOR 4 for survey planning, navigation, real-time data display and recording

TECHNICAL INFORMATION

CONTROLLER TECHNOLOGY:	FEREX 4.034 with 24-bit ADC
NUMBER OF PROBES:	<ul style="list-style-type: none"> — 1–8 probes with one FEREX PNC — 9–16 probes with two FEREX PNC units
RECORDING RATE:	300 Hz per probe
PROBE SPACING:	Variable
TRACK WIDTH:	Variable; e.g. 1 m with 4 probes at 0.25 m probe spacing / 16 m with 16 probes at 1 m probe spacing
DIMENSIONS (L × W × H):	235 × 145 × 105 mm
WEIGHT:	<ul style="list-style-type: none"> — 1.2 kg without control unit — 2.8 kg with 2 control units
POWER SUPPLY:	12–24 V DC
PROTECTION GRADE:	IP65
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

ACCESSORIES



DATAMONITOR 4

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



FEREX PROBE HOLDER

Modular probe holder system for large-area magnetometer surveys



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