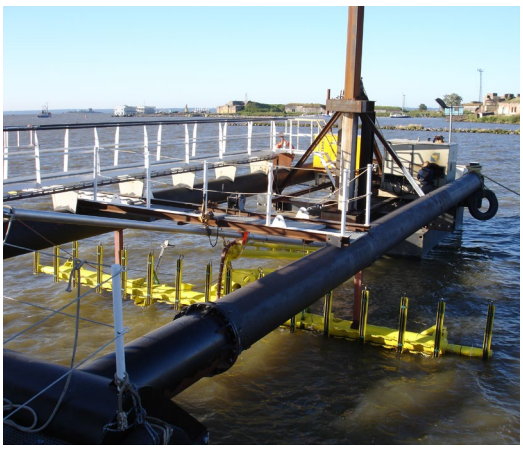
PRODUCT INFORMATION

FOERSTER

# FEREX PNC

## LARGE-AREA SURVEY WITH MAGNETOMETER NETWORK

proof.

## Product description

With the FEREX PNC Probe Network Controller it is possible to set up a probe network of up to 16 FEREX MG-10-550 magnetometer probes. This enables a fast and precise large-area survey onshore, offshore and under water. The standard probes from the FEREX product family as well as the FEREX 4.034 controller come into use. An open design for GPS systems of different manufacturers, in combination with the DATAMONITOR 4 data recording and navigation software, makes the FEREX PNC a perfect solution for any kind of large-area survey.


## Characteristics

- Tool-kit design allows to customize to project requirements
- Recording of geo-referenced magnetometry data
- Freely selectable probe to probe distance
- Track width 8 m (at a probe to probe distance of 0.5 m)
- High recording rate enables maximum area performance
- Ground coverage about 2 hectares per hour with the basic system (e.g. FOERSTER MULTICAT 4.850 at a track width of 2 m)
- Designed to be used on land, on water and underwater in connection with a suitable probe holder system
- Standard FEREX 4.034 controller
- FEREX MG-10-550 probes and cables watertight up to 100 m

## System components

- 1 - 2 FEREX PNC
- 1 - 4 FEREX 4.034 contollers
- 4 - 16 FEREX MG-10-550 probes
- DATAMONITOR 4 survey grid preparation, navigation and data recording software
- Rugged Laptop or Tablet
- Differential GPS

## FEREX PNC

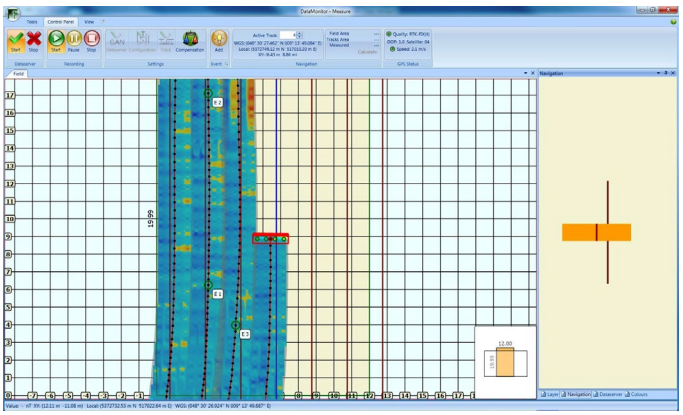
- Networking of up to 2 FEREX 4.034 controllers
- USB interface for a simple and secure computer connection
- 12-24V DC power supply
- GPS interface
- Up to 8 FEREX MG-10-550 probes per FEREX PNC

## FEREX MG-10-550 Probe

- Standard probes of the FEREX product family
- Bandwidth of 230 Hz for high recording speeds
- High sensitivity, with a low noise level of less than 1nT pp, not only allows for the detection of UXO but also for other weak magnetic anomalies

## DATAMONITOR 4 Software

- Definition of projects and survey grids at the office or in the field
- Simple handling of regular and irregular shaped grid geometries
- Free navigation or along defined optimized tracks
- Start, pause and stop at any time, resume of paused projects at any time
- Online display of sensor data
- Event button for saving comments with position data and timestamp
- Simple data exchange with DATA2LINE evaluation software



## Technical specifications

| **FEREX PNC** | |
|---|---|
| Controller technology | FEREX 4.034 with 24 bit ADC |
| Dimensions | L x W x H 235 x 145 x 105 mm |
| Weight | 1.2 kg without controller, 2.8 kg with 2 controllers |
| Number of probes | 1 - 8 probes with one FEREX PNC<br>9 - 16 probes with two FEREX PNC |
| Sampling-rate | 300 Hz per probe |
| Power supply | 12-24V DC |
| Protection grade | IP 65 |
| Probe to probe distance | variable |
| Track width | variable<br>e.g. 1 m with 4 probes and 0.25 m probe to probe distance<br>e.g. 16 m with 16 probes and 1 m probe to probe distance |
| | |
| **Probe** | **FEREX MG-10-550** |
| Probe technology | Fluxgate gradiometric probe |
| Bandwidth | 230 Hz |
| Noise | <1nT pp |
| Protection grade | IP 68, 100m with optional sealing plug |
| | |
| **Differential GPS** | **Various manufacturers** |
| Data protocol | NMEA 0183 |
| Accuracy | RTK FIX |

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