

SYSTEMS FOR GEOMAGNETIC PROSPECTION



FEREX® 4.032 Fluxgate Magnetometer



FEREX® Probes CON 400 – 650 – 1600

- Vertical fluxgate gradiometer
- Tension band technology, alignment for lifetime
- Field proven, robust, minimum maintenance required
- High sensitivity, low noise
- 3 sensor distances available for surface and down-hole survey
- Waterproof housing



FEREX® DLG Data logger

- 4 channels with high sampling rate
- High memory capacity
- Interface for external synchronisation of data recording by start-stop push-button or wheel-kit including encoder
- GPS-interface optional
- Navigation indicator on display (GPS only)
- Low power consumption
- Field proven, robust, minimum maintenance required

FEREX® DLG Basic Kit

- Control unit including 4-channel data logger
- Probe FEREX CON 650
- Probe cable 0.6 m
- Carrying rod
- Battery pack
- Carrying strap
- Transit case
- Remote start-stop push-button
- Data transfer cable
- Software for download and display





Multi-Probe-Carrier

- Non-magnetic, robust probe-carrier
- Low-weight fiber-glass design
- Collapsible, no tools required
- Available for 3 or 4 probes
- Adjustable probe spacing 25 / 50 cm
- 3- or 4-fold probe cable
- Extension cable to connect battery pack
- Ergonomic design



Multi-Probe-Carrier including Wheel-Kit

- Attachable non-magnetic wheel-kit
- Optional encoder attached to wheel-kit for precise distance measurement and synchronisation of data sampling



FEREX® PNC

- Power supply and AD-conversion for up to 4 FEREX CON probes
- Link up to 4 FEREX PNC via CAN-bus for 16 probe network
- Especially designed for operation of vehicle towed probe-carriers, e.g. FOERSTER MULTICAT®
- Power supply from vehicle onboard system or separate battery
- DATAMONITOR software required to control data recording and real-time vehicle navigation

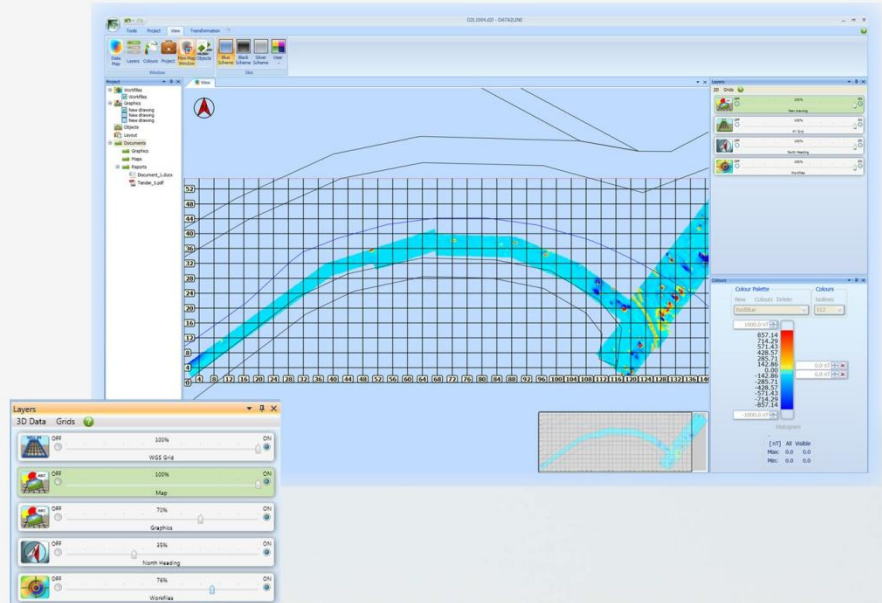


DATA2LINE® 4.810

Evaluation software

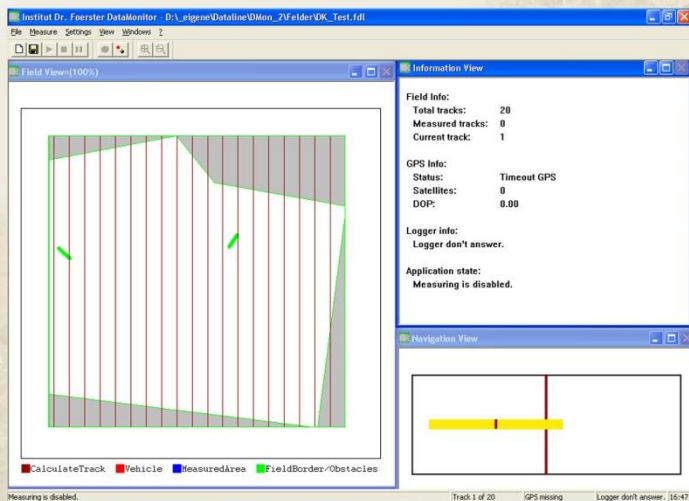
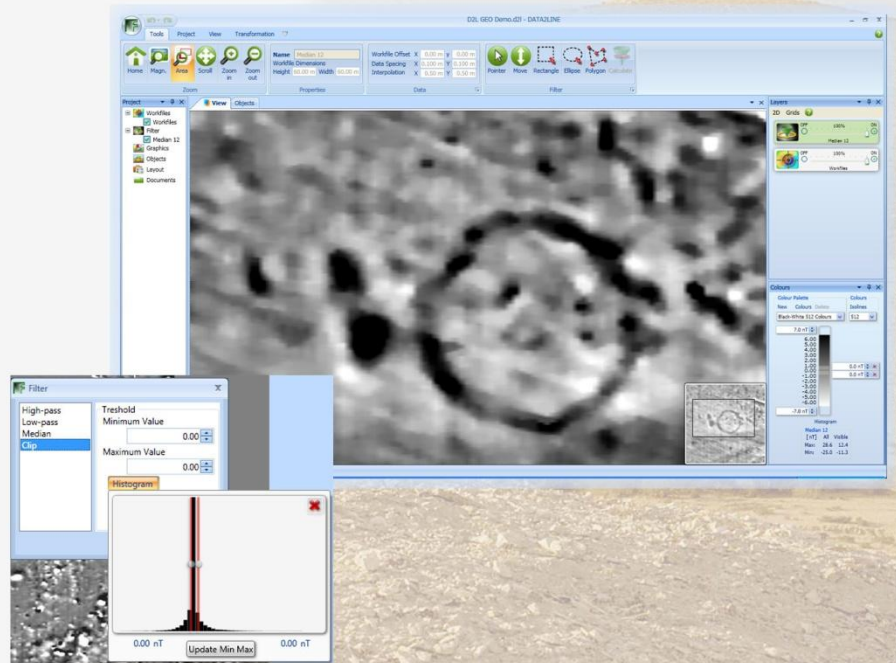
BASIC Module

- Import and export data
- Merge and process data
- Mean Zero Grid/Traverse – “De-Stripe”,
- Position Offset Correction – “De-Stagger”
- Geo-reference data, create data maps
- Display graphical information on separate layers
- Selectivity, transparency and order of layers is fully adjustable
- Manage project information and documents



GEO Module

- Data processing
- Interpolate
- Low Pass
- High Pass
- Min-Max – “Clip”
- Median
- 2D-FFT
- Wallis
- Zero-Mean



DATAMONITOR 4.850

Navigation and Data Sampling

- Control data recording of up to 16 FEREX CON probes
- High data sampling rate
- GPS interface
- Real-time vehicle navigation
- Import prepared project configurations and parameters

Technical Specifications



FEREX® Probes CON 400 – 650 - 1600

- Gradiometer
- Sensor distances: fix: 400 / 650 / 1.600 mm
- Measuring range: +/-10,000 nT
- Stability: < 1 nT
- Linearity: < 1 nT (Measuring range)
- Band width: 240 Hz
- Temperature drift: < 1 nT/K (Standard)
< 0.4 nT/K (on request)
- Noise: < 1 nT peak-to-peak (Standard)
< 0.5 nT peak-to-peak (on request)



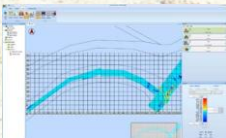
FEREX® 4.032 DLG Data logger

- Recording channels: 4
- Internal memory: approx. 5.3 millions data samples
- Sampling rate: up to 100 Hz per channel
- Resolution: 18 Bit ADC
- Power supply: 4 "D"- cells IEC LR 20
- Battery lifetime: > 35 hours (1 probe)
> 15 hours (3 probes)
> 10 hours (4 probes)
- Weight: 4.9 kg (Basic Kit complete)
- Interfaces: FEREX CON probes
External synchronisation
GPS



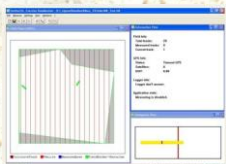
FEREX® 4.032 PNC

- Recording channels: 4
- Sampling rate: up to 120 Hz per channel
- Resolution: 24 Bit ADC
- Power supply: 12-24 VDC
- Weight: 2.8 kg
- Interfaces: FEREX CON probes
CAN-Bus (PC, PNC)
- CAN-Network: max. 4 PNC (= 16 channels)



DATA2LINE® 4.810

- Data formats: txt, xyz, uxo, fdl (Import/Export)
equ, raw (Export)
- Graphics formats: bmp, png, jpg, gif, tif, wmp, dwg, dxf (Export)
bmp, png, jpg, gif, tif, shp, dwg, dxf (Import)
- System requirements: 64-Bit Windows 7 (recommended)
32-Bit Windows 7, Vista, XP SP3
4 GB RAM, 3 GHz CPU (single core)
1x RS 232, 1x USB 2.0



DATAMONITOR 4.850

- Data formats: cfg, pos (Import), fdl (Export)
- System requirements: Windows Vista, XP SP3
2 GB RAM, Dual Core 1.6 GHz
3x USB 2.0
Alternative 2x USB 2.0, 1x PCMCIA