

PRODUCT INFORMATION



FEREX[®] 4.032 DLG / DLG KARTO

FERROUS LOCATOR WITH 4 CHANNEL DATA LOGGER



proof.

PRODUCT DESCRIPTION

The FEREX is a vertical gradient fluxgate magnetometer that measures the deformation of the earth's magnetic field evoked by ferromagnetic objects. Magnetometers are suitable for the detection of ferromagnetic metals like iron, steel or nickel. Normally the detection depth of magnetometers is larger compared to active EMI detectors but it varies and depends on the object's mass and its magnetic properties. The FEREX 4.032 DLG can be used either in the direct indicating FEREX mode or in the data logging mode. Four data logging channels allow the expansion of the FEREX 4.032 DLG to a multi probe system for large area detection. Furthermore it can be upgraded to the FEREX 4.032 DLG KARTO model which comes with a GPS-interface for geo-referencing and navigation.

CHARACTERISTICS

- Detection of ferrous material/UXO e.g. bombs, shells, projectiles, sub-ammunitions
- Magnetometer using tension band technology
- Probe calibration for lifetime
- In-built filters for search under power lines
- Special mode for search along fences, pipelines and railway tracks
- Special mode for filtering small objects
- Precise handling, light weight
- High detection sensitivity
- Modular design
- Data logging of up to 4 channels
- Extendable to 3 or 4 multi probe system with optional wheel set
- GPS-interface (Karto model)
- Software DATA2LINE for the evaluation of recorded data



PRODUCT PACKAGES

FEREX 4.032 DLG

NSN 6665-12-359-9685

- Control unit DLG
- FEREX probe CON 650
- 0.6m cable
- Carrying rod
- Battery pack
- Carrying belt
- Rugged case
- Batteries
- Start/Stop-Handgrip
- Data transfer cable
- User manual



FEREX 4.032 DLG KARTO

NSN 6665-12-354-4078

- Control unit Karto
- FEREX probe CON 650
- 0.6m cable
- Carrying rod
- Battery pack
- Carrying belt
- Rugged case
- Batteries
- Start/Stop-Handgrip
- Data transfer cable
- User manual



OPTIONS

- 3 or 4 probe holder
- Wheel set
- Adapter for GPS antenna
- Borehole detection
- Extension cable up to 100m
- Headphone
- Green or yellow color version



TECHNICAL SPECIFICATION

CONTROL UNIT

| | | | |
|--------------------------------|---|-------------------------------|----------|
| Weight | 4.9 kg complete detector incl. batteries 10.5 kg complete detector set in case | | |
| Dimensions | FEREX® | L 1400 mm | |
| | Case | L x W x H 1000 x 280 x 340 mm | |
| Temperature ranges | Operation | -37°C to +71°C | |
| | Stock | -57°C to +71°C | |
| Power supply | 4 x 1.5V batteries or 4 x 1.2V rechargeable batteries | | |
| Battery size | D - cells, ANSI STD. Size «D» (IEC LR 20) | | |
| Battery lifetime | | 1 probe | 3 probes |
| | Intermitted operation | >36 h | >18 h |
| | Continuous operation | >35 h | >15 h |
| Measuring ranges in FEREX mode | 8 linear ranges: 0 to 3 nT up to 0 to 10.000 nT | | |
| | and 1 logarithmic range | | |
| Sampling rate | FEREX 4.032 DLG: up to 100Hz/channel FEREX 4.032 DLG KARTO 25 Hz/channel | | |
| Resolution | <0.2nT | | |
| Protection grade | IP 57 | | |

PROBE

| | |
|-----------------------|--|
| Design | Tension band, alignment for lifetime |
| Measuring uncertainty | <2 % ref. ±10.000 nT |
| Stability | <1nT |
| Temperature drift | <1nT/K |
| Bandwidth | 240 Hz |
| Measuring range | ±10.000 nT |
| Noise | <1 nT pp |
| Linearity | <1nT ref. to max. measuring range |
| Protection grade | IP 68, 100m with optional sealing plug |

QUALIFICATIONS

MIL-STD 810E 512.2 Leak test
 MIL-STD 810E 514.4-1 Random Vibration
 MIL-STD 810E 516.4 Mechanical Shock
 MIL-STD 810E 516.4 Transit Drop Test, Procedure IV
 MIL-STD 810E 501.3 High Temperature
 MIL-STD 810E 502.3 Low Temperature

MIL-STD 810E 503.3 Temperature Shock
 MIL-STD 810E 506.3-1 Blowing Rain
 MIL-STD 461 D RE 102 Radiated Emission
 MIL-STD 461 D RS 103 Radiated Susceptibility
 CE: European Directive 2004/108/EC, EN 61326-1

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