

PRODUCT INFORMATION



# FEREX<sup>®</sup> 4.032 API

FERROUS LOCATOR

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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.

## 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



## PRODUCT PACKAGES

### FEREX 4.032 API NSN 6665-12-359-9684

- Control unit API
- FEREX probe CON 650
- Carrying rod
- Battery pack
- Carrying belt
- Rugged case
- Batteries
- User manual



### FEREX 4.032 API – Mk26 Mod1 NSN 6665-01-503-7886

- Control unit API
- FEREX probe CON 650
- Carrying rod
- Battery pack
- Carrying belt
- Rugged case
- Batteries
- User manual
- 30m extension cable
- Pulling rope
- Ballast weight
- Headphone



### OPTIONS:

- Borehole detection
- Extension cable up to 100m
- Headphone
- Green or yellow color version



## TECHNICAL SPECIFICATION

### CONTROL UNIT

Weight	4.7 kg complete detector incl. batteries 10.0 kg complete FEREX 4.032 API 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	Intermitted operation >60 h Continuous operation >50 h
Measuring ranges	8 linear ranges: 0 to 3 nT up to 0 to 10.000 nT and 1 logarithmic range
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	< 1nT 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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