

FOERSTER

Your Partner for Mine Detection and Bomb Location

FEREX[®] 4.021/Mk 26

FEREX[®] 4.021/Mk 26 Datalogger Upgrade DATALINE

Advantages

- * Military approved design and operation
- * Light weight
- * Standard 1.5 V monocells
- * The probe is watertight up to a depth of 100 m
- * Various cable lengths between control unit and probe can be delivered
- * Built-in loudspeaker, alternatively headphone
- * Functional and battery check
- * Easy exchange of spare parts:
Probe, control unit, power supply, carrying handle: all parts are interchangeable with other instruments
- * Special fittings:
For extreme temperatures: Lithium batteries (10 years shelf life with full capacity), Ni/Cd rechargeable batteries with charger
- * Complete scope of accessories
- * Recorder output for recording metered values
- * Datalogger Upgrade DATALINE
 - High resolution and large storage capacity (50km)
 - Trackwise scanning
 - Easy data transfer to PC
 - MS-WINDOWS based (3.11 / '95 / NT) interactive evaluation software
 - Localization and calculation of ferrous objects
 - Color coded magnetic anomalie maps
 - Object list and true to scale object maps
 - Individual track display



Fig. 1 FEREX 4.021 in use on land



Fig. 2 FEREX 4.021 with Datalogger

Application

The search instruments FEREX 4.021 are used for the location of ferromagnetic parts, buried in the ground or underwater. They are suitable for detection and exact location of unexploded bombs, pipes, cables, wreck parts and ships anchors etc.

Other applications are: Magnetic surveillance and separation of Fe and NFe metals. Depending on the size and position of the ferromagnetic parts they can be detected with the probe up to a distance of 6 m. Big parts, however, can be located at considerably larger distances.

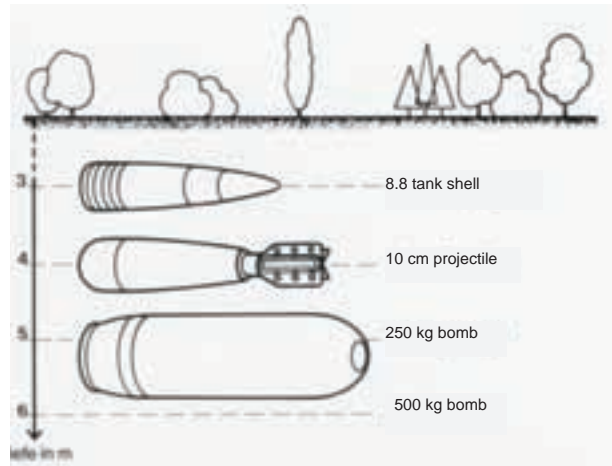


Fig. 3 Detection depths

Method of operation

Ferro-magnetic parts situated in a homogeneous d.c. magnetic field cause an interference field to be set up in their surroundings (inhomogeneity). The magnitude of this inhomogeneity can be determined by means of a differential-field measuring arrangement. FÖRSTER probes are used as the measuring instrument. Searching resp. measuring is independent from the position of the probe

Modes of operation

The FEREX can be adapted to various applications by means of the operating mode switch:

- (1) static difference:
normal location of all ferrous objects
- (2) static difference selective:
location of large objects some small objects are suppressed
- (3) dynamic difference:
static influences are suppressed
- (4) static absolute:
can be used as a compass

The size and direction of the measured magnetic fields are indicated on the scale of the FEREX 4.021.

Construction

The search instrument FEREX 4.021 is a supersensitive, precise battery operated measuring instrument consisting of the following basic components:

- Control unit
- Power supply
- Probe

Depending on the practical application, 3 different versions of the FEREX 4.021 can be supplied by combining the basic components with additional accessories:

- 1. FEREX L:**
for searching, locating and measuring on land
- 2. FEREX W:**
for underwater and borehole searching
- 3. FEREX K:**
complete equipment for land, underwater and borehole application

The above military approved instruments are mechanically strong, of light-weight construction and long lasting.

Control unit

The control unit is splashproof. The cable to the probe is protected by the fork. The sensitivity ranges are selected by a big milled knob (one finger operation). When switching on the batteries are checked.

All other operation functions are activated by touch:

- auto-zero-compensation
- functional test of probe and control unit in the operating modes 1 or 2
- volume adjustment "UP" and "DOWN"

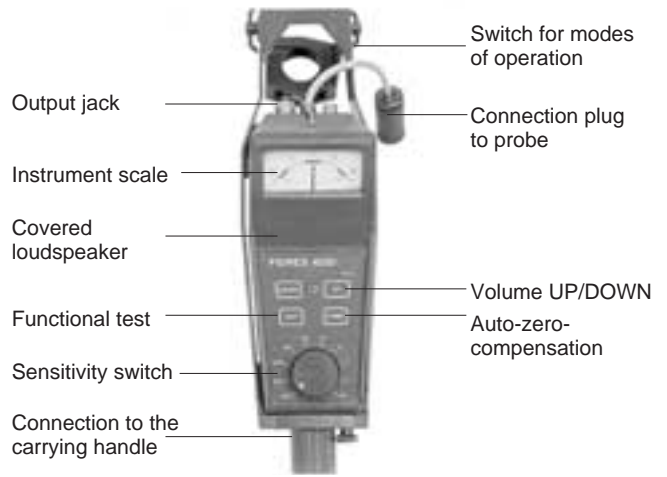


Fig. 4 Control unit

Power supply

The power supply is splashproof. The cover to the battery compartment is secured with rapid connector so that battery changing is easy.

Probe

Two FÖRSTER probes are aligned in one probe and protected against shock, damages and humidity.

Carrying handle

The probe is connected by the probe grip to the fork, which in turn is connected to the carrying handle. The carrying handle is easily secured to the carrying strap.

Extension cable

A 30 m long extension cable is supplied with underwater version accessories. The probe sealing plug to the probe is watertight up to a pressure of 10 bar (= 100 m underwater depth). Other desired cable lengths are available as optional accessories.

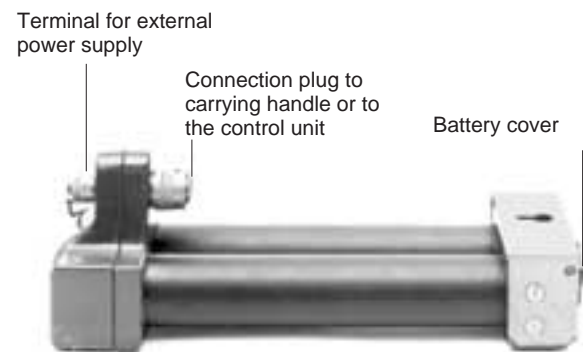


Fig. 5 Power supply

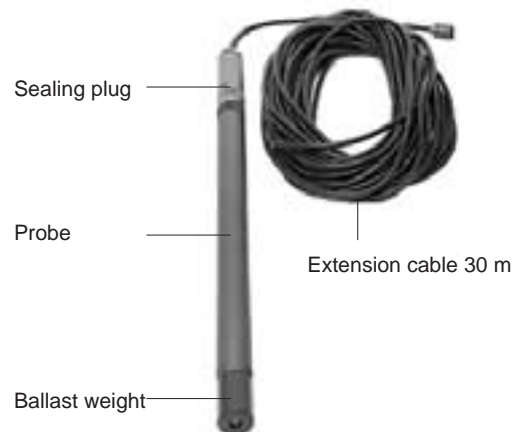


Fig. 6 Probe with sealing plug, ballast weight and extension cable

FEREX K 4.021.02

Complete equipment for land, underwater and borehole application.

Transit case (optional accessory)

The complete equipment FEREX K 4.021.02 can be packed into the transit case 4.021-2411. Therefore the versions FEREX L and FEREX W can be packed into the transit case as well.

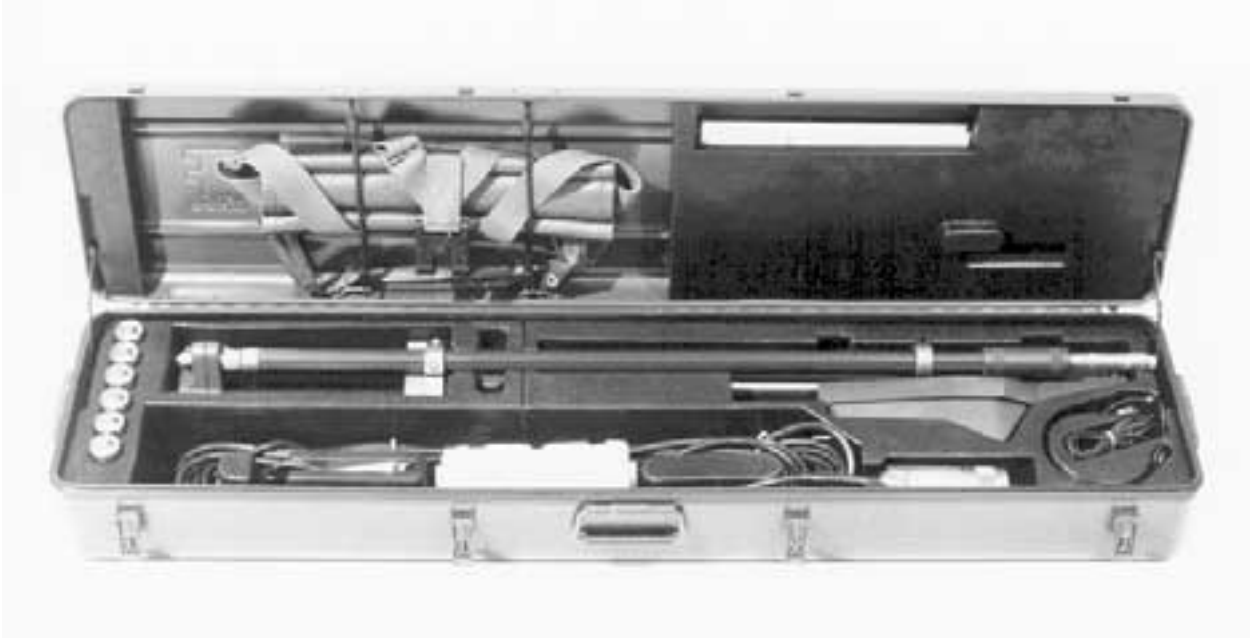


Fig. 7 FEREX K 4.021.02 in transit case

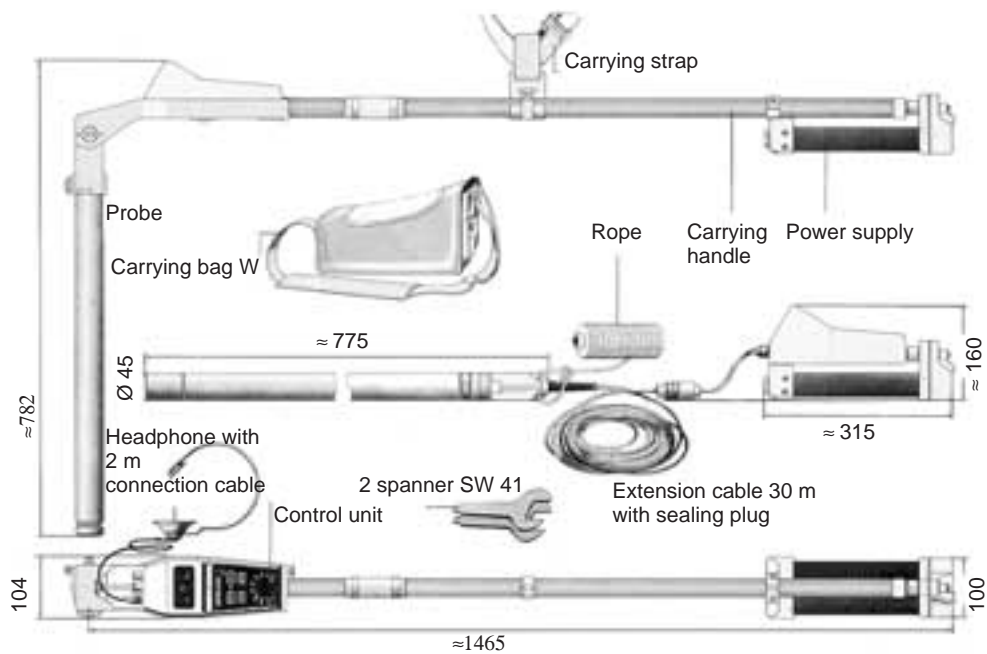


Fig. 8 Equipment FEREX K 4.021.02

FEREX L 4.021-03 (land version)

Land search technique

When searching on land the FEREX probe is moved along parallel lines over the area to be searched. In places where there is an instrument signal a ferromagnetic part will be located.

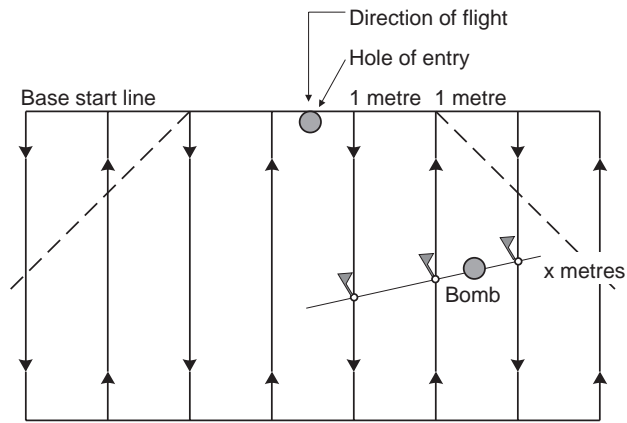


Fig. 9 Land search technique, diagram

Rucksack L (optional accessory)

The FEREX L can be packed ready for use in the rucksack L 4.021-2431.



Fig. 10 FEREX L 4.021.03 in rucksack L

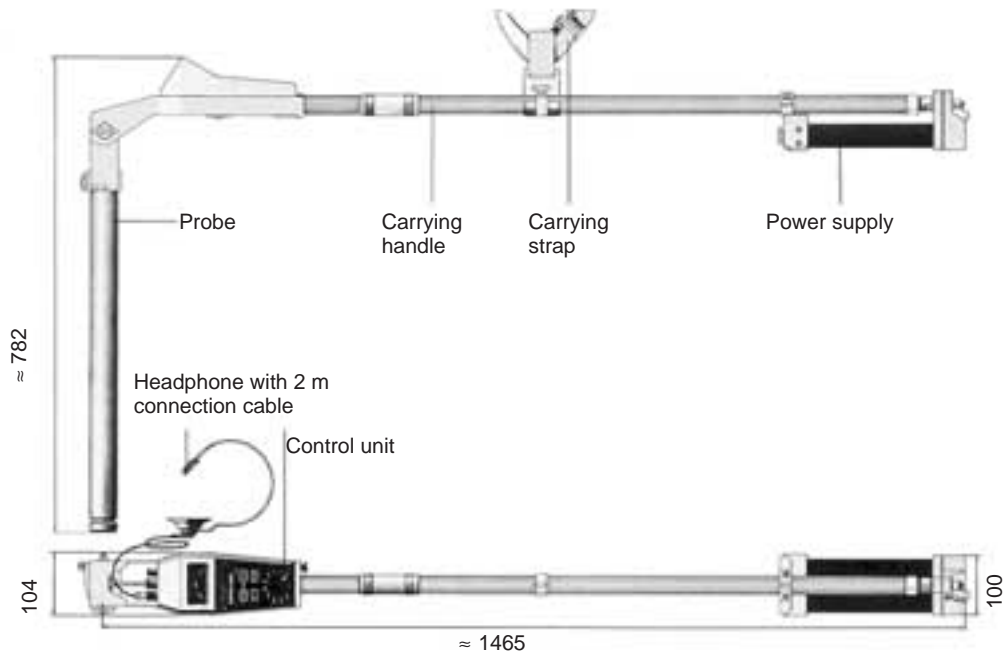


Fig. 11 Equipment FEREX L 4.021.03

FEREX W 4.021.04 (water version)

Underwater search technique

For underwater search operations, the FEREX 4.021 probe is towed or guided by a diver.

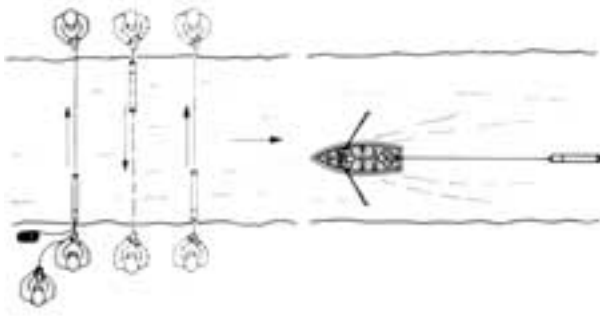


Fig. 12 Search technique underwater

Rucksack W (optional accessory)

The FEREX W can be packed ready for use in the rucksack W 4.021-2421.



Fig. 13 FEREX W 4.021.04 in rucksack

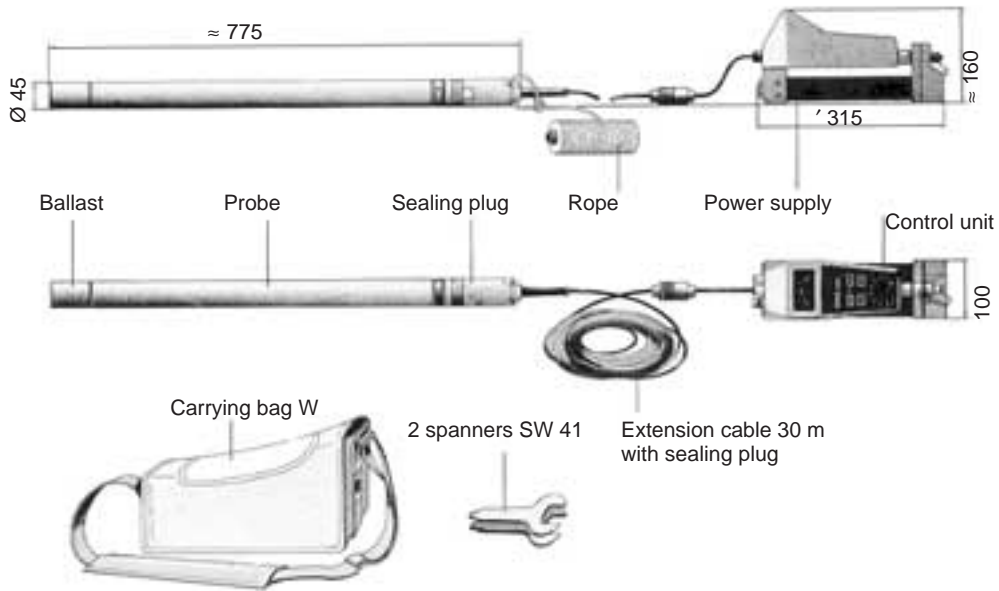


Fig. 14 Equipment FEREX W 4.021.04

Ordnance and Explosive Waste (OEW) Detection Gradient Magnetometer FEREX 4.021/Mk 26 Datalogger Upgrade DATALINE

For thousands of FEREX 4.021/Mk 26 in use worldwide for detection and localization of OEW a new Datalogger is available for their upgrading to advanced magnetometer scanning and evaluation systems.

This upgrade is easy to achieve and increases the use and efficiency of the instruments by providing object localization, object data calculation and mapping for large area clean-up and remediation processes.

The system upgrade components:

- FEREX 4.021/Mk 26 control unit with additional datalogger interface
- DLG 4.021 Datalogger
- Software DATALINE
- PC workstation or laptop



Datalogger front panel

Fig. 15 FEREX 4.021/Mk 26 Land Search Configuration with Datalogger DLG 4.021

FEREX DATALOGGER UPGRADE

Standard Functional Sets are available with Datalogger language in English or German. Other languages on request.

FEREX DATALOGGER UPGRADE 4.811.80 and 4.811.81

FEREX with Datalogger for scanning large areas. Measured magnetic field values of areas are picked up by the FEREX probe and stored in the Datalogger.

After the scan the stored values are transferred to a PC workstation or a laptop and then evaluated with the FEREX DATALINE 4.800 software, installed on the PC/laptop.

FEREX DATALOGGER UPGRADE GPS NAVIGATOR 4.811.82 and 4.811.83

FEREX with Datalogger for scanning large areas with additional navigation assistance by a bargraph for moving up and down the tracks. When using this Datalogger, the field to be scanned no longer needs to be marked out with tapes. It suffices to define the first track with the aid of the GPS system and additionally to define the track and field width.

Then only the START/STOP key needs to be pressed to record and store data.

The navigator system indicates the ideal track which the user should run on and keeps him "on track".

FEREX DATALOGGER UPGRADE GPS CARTOGRAPH 4.811.84 and 4.811.85

FEREX with Datalogger for scanning large areas. When using this package, concrete field definition is reduced to defining the coordinate zero point of the field. GPS coordinates are assigned to the probe's measured values, with the result that any tracks can be chosen and the size of the field is now only limited by the available memory capacity.

The package also enables the configuration of the FEREX as a simple Datalogger device and as a FEREX Datalogger Upgrade GPS Navigator.

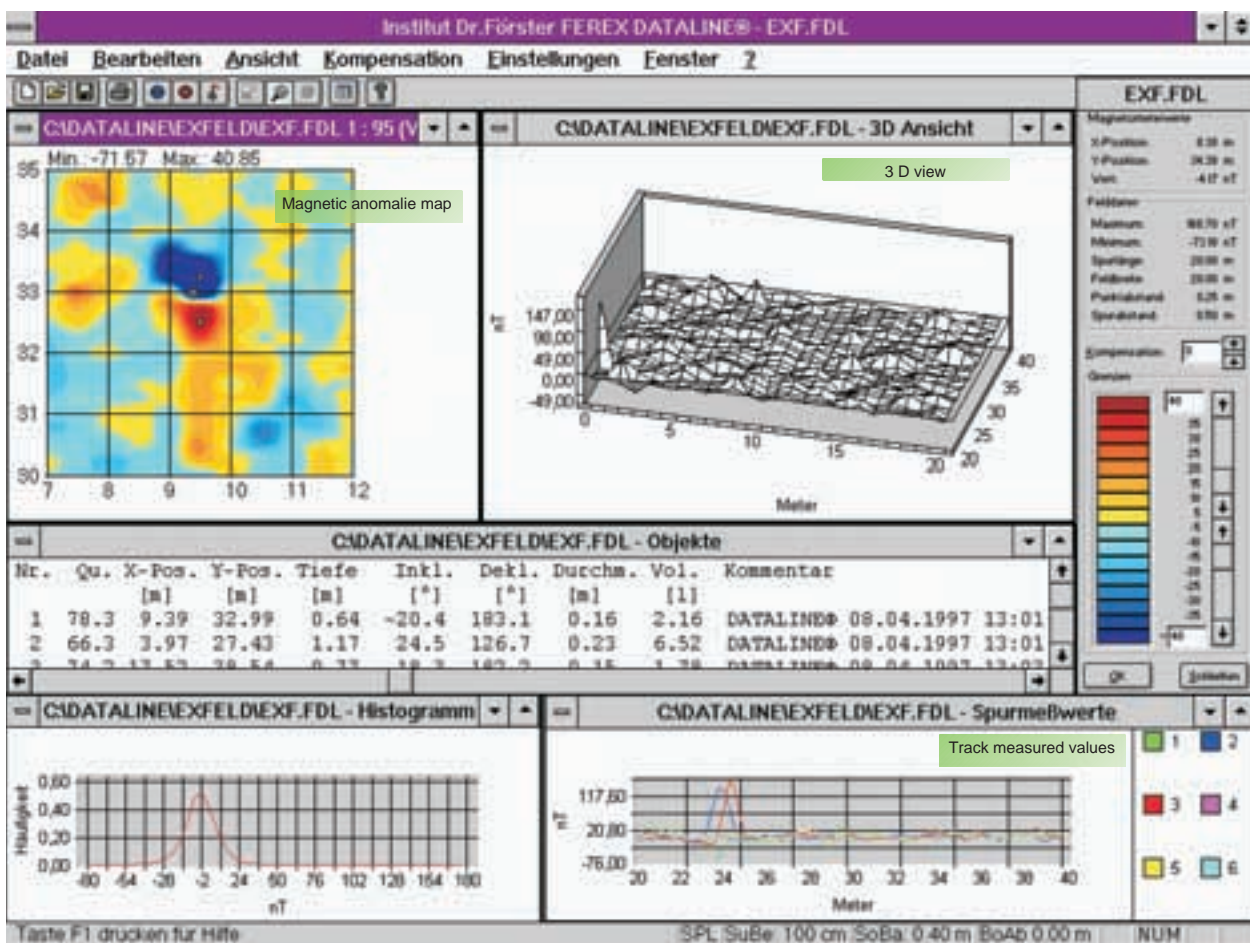


Fig. 16 FEREX DATALINE PC-screen with different evaluation windows of Datalogger scanned fields

FEREX-DATALINE result presentation

The typical result presentation of the evaluation software FEREX-DATALINE is shown in figure 16. Several evaluation windows can be shown simulta-

neously. Further evaluation of the displayed graphic or list is possible by activation of the corresponding window.

Technical data

FEREX basic system

Operating voltage	6 to 12 V																											
Batteries	6 mono-cells each 1.5 V IEC LR 20 (Alkali-Mangan)																											
For operation mode 1, 2, 3	<table><thead><tr><th>Sensitivity x range</th><th>full scale value 10</th><th>= full scale deflection</th></tr></thead><tbody><tr><td>0.3</td><td></td><td>3 nT (gamma)</td></tr><tr><td>1</td><td></td><td>10 nT</td></tr><tr><td>3</td><td></td><td>30 nT</td></tr><tr><td>10</td><td></td><td>100 nT</td></tr><tr><td>30</td><td></td><td>300 nT</td></tr><tr><td>100</td><td></td><td>1000 nT</td></tr><tr><td>300</td><td></td><td>3000 nT</td></tr><tr><td>1000</td><td></td><td>10000 nT</td></tr></tbody></table>	Sensitivity x range	full scale value 10	= full scale deflection	0.3		3 nT (gamma)	1		10 nT	3		30 nT	10		100 nT	30		300 nT	100		1000 nT	300		3000 nT	1000		10000 nT
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30		300 nT																										
100		1000 nT																										
300		3000 nT																										
1000		10000 nT																										
For operation mode 4 the scale reading additionally has to be multiplied by 1																												
Operating threshold for acoustic transducer	± 20% of scale value																											
Probe tube with sealing plug watertight to a pressure of	10 bar = 100 m depth underwater																											
Base clearance of the probes	400 mm																											
Permissible ambient temperature with Alkali-Mangan batteries	- 32 to + 55° C																											
Permissible ambient temperature with Lithium batteries	- 50 to + 80° C																											
Storage temperature (without batteries)	- 55 to + 85° C																											
FEREX K	11.45 kg																											
FEREX L	6.15 kg																											
FEREX W	9.55 kg																											
Transit case (1280 x 320 x 175 mm)	14.9 kg																											

DLG 4.021 Datalogger

Weight	0.5 kg
Operating temperature	-20 °C to 55 °C
Storage temperature	-40 °C to 70 °C
Enclosure	IP 65
LCD Display	Graphic with high resolution and high readability
Interface	RS 232, RS 485 and GPS input
Memory capacity	16 MB RAM or on customer requirements
Data logging	4 channels (max. Four FEREX probes)
Value range for data input	Starting coordinate Y + track length: ≤ 10,000 m Starting coordinate X + track width: ≤ 10,000 m
Track distance	≥ 0.1 m, data point distance ≥ 0.1 m
Max. total track length	50 km
Recording speed	Max. 20 data points per second
Data storage	18 bit
Dialog language	English, German, others on request

Ordering instructions

Designation	Part no.	Order no.
<hr/> STANDARD FUNCTIONAL SETS <hr/>		
FEREX K, COMPLETE	4.021.02	1059726
consisting of:		
BASIC COMPONENTS	4.021 -2101	1059629
LAND VERSION ACCESSORIES	4.021 -2201	1059610
UNDERWATER VERSION ACCESSORIES	4.021 -2301	1059300
<hr/>		
FEREX K MOD. DLG, COMPLETE	4.021.85	1250680
consisting of:		
BASIC COMPONENTS MOD. DLG	4.021.09-2101	1250710
LAND VERSION ACCESSORIES	4.021 -2201	1059610
UNDERWATER VERSION ACCESSORIES	4.021 -2301	1059300
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FEREX L, LAND VERSION	4.021.03	1059734
consisting of:		
BASIC COMPONENTS	4.021 -2101	1059629
LAND VERSION ACCESSORIES	4.021 -2201	1059610
<hr/>		
FEREX L MOD. DLG, LAND VERSION	4.021.86	1250698
consisting of:		
BASIC COMPONENTS MOD. DLG	4.021.09-2101	1250710
LAND VERSION ACCESSORIES	4.021 -2201	1059610
<hr/>		
FEREX W, WATER VERSION	4.021.04	1059742
consisting of:		
BASIC COMPONENTS	4.021 -2101	1059629
UNDERWATER VERSION ACCESSORIES	4.021 -2301	1059300
<hr/>		
FEREX W MOD. DLG, WATER VERSION	4.021.87	1250701
consisting of:		
BASIC COMPONENTS MOD. DLG	4.021.09-2101	1250710
UNDERWATER VERSION ACCESSORIES	4.021 -2301	1059300
<hr/>		
BASIC COMPONENTS	4.021 -2101	1059629
consisting of:		
CONTROL UNIT	4.021 -2111	1018906
POWER SUPPLY	4.021 -2121	1018914
PROBE BAR, TENSION RIBBON 400mm	4.021 -2132	1033387
D-CELL 1.5V, IEC LR20 (ALKALINE)	* 4020	0107166
USERS MANUAL GERMAN, FEREX	4.021 UA06/D	1348418
USERS MANUAL ENGLISH, FEREX	4.021 UA06/E	1348426
<hr/>		
BASIC COMPONENTS MOD. DLG	4.021.09-2101	1250710
consisting of:		
CONTROL UNIT MOD. DLG	4.021.09-2111	1101803
POWER SUPPLY	4.021 -2121	1018914
PROBE BAR, TENSION RIBBON 400mm	4.021 -2132	1033387
D-CELL 1.5V, IEC LR20 (ALKALINE)	* 4020	0107166
USERS MANUAL GERMAN, FEREX	4.021 UA06/D	1348418
USERS MANUAL ENGLISH, FEREX	4.021 UA06/E	1348426

Designation	Part no.	Order no.
FEREX DATALOGGER UPGRADE, GERMAN	4.811.80	1599917
consisting of:		
DLG 4.021 DATALOGGER, GERMAN	4.811.01-1001	1584502
START/STOP SWITCH, WITH CABLE	4.032.01-9008	1598368
DATA TRANSFER CABLE, DATALOGGER > PC	4.031.03-9901	1498606
BAG	*91321	0188956
USERS MANUAL GERMAN, FEREX 4.021 DATALOGGER UPGRADE	4.811 UA06/DE	1600125
FEREX DATALOGGER UPGRADE, ENGLISH	4.811.81	1599925
consisting of:		
DLG 4.021 DATALOGGER, ENGLISH	4.811.02-1001	1599976
START/STOP SWITCH, WITH CABLE	4.032.01-9008	1598368
DATA TRANSFER CABLE, DATALOGGER > PC	4.031.03-9901	1498606
BAG	*91321	0188956
USERS MANUAL ENGLISH, FEREX 4.021 DATALOGGER UPGRADE	4.811 UA06/EN	1598511
FEREX DATALOGGER UPGRADE, GPS NAVIGATOR GERMAN	4.811.82	1599933
consisting of:		
DLG 4.021 DATALOGGER, GPS NAVIGATOR GERMAN	4.811.03-1001	1599984
START/STOP SWITCH, WITH CABLE	4.032.01-9008	1598368
DATA TRANSFER CABLE, DATALOGGER > PC	4.031.03-9901	1498606
BAG	*91321	0188956
USERS MANUAL GERMAN, FEREX 4.021 DATALOGGER UPGRADE	4.811 UA06/DE	1600125
FEREX DATALOGGER UPGRADE, GPS NAVIGATOR ENGLISH	4.811.83	1599941
consisting of:		
DLG 4.021 DATALOGGER, GPS NAVIGATOR ENGLISH	4.811.04-1001	1599992
START/STOP SWITCH, WITH CABLE	4.032.01-9008	1598368
DATA TRANSFER CABLE, DATALOGGER > PC	4.031.03-9901	1498606
BAG	*91321	0188956
USERS MANUAL ENGLISH, FEREX 4.021 DATALOGGER UPGRADE	4.811 UA06/EN	1598511
FEREX DATALOGGER UPGRADE, GPS CARTOGRAPH GERMAN	4.811.84	1599950
consisting of:		
DLG 4.021 DATALOGGER, CARTOGRAPH GERMAN	4.811.05-1001	1600109
START/STOP SWITCH, WITH CABLE	4.032.01-9008	1598368
DATA TRANSFER CABLE, DATALOGGER > PC	4.031.03-9901	1498606
BAG	*91321	0188956
USERS MANUAL GERMAN, FEREX 4.021 DATALOGGER UPGRADE	4.811 UA06/DE	1600125
FEREX DATALOGGER UPGRADE, GPS CARTOGRAPH ENGLISH	4.811.85	1599968
consisting of:		
DLG 4.021 DATALOGGER, CARTOGRAPH ENGLISH	4.811.06-1001	1600117
START/STOP SWITCH, WITH CABLE	4.032.01-9008	1598368
DATA TRANSFER CABLE, DATALOGGER > PC	4.031.03-9901	1498606
BAG	*91321	0188956
USERS MANUAL ENGLISH, FEREX 4.021 DATALOGGER UPGRADE	4.811 UA06/EN	1598511

Designation	Part no.	Order no.
LAND VERSION ACCESSORIES	4.021 -2201	1059610
consisting of:		
CARRYING HANDLE	4.021 -2211	1067591
CARRYING STRAP	4.015 - 511	1067370
HEADPHONE 2M	4.021 -2232	1018930
UNDERWATER VERSION ACCESSORIES	4.021 -2301	1059300
consisting of:		
CARRYING BAG W	4.021 -2311	0139696
BALLAST WEIGHT	4.021 -2301-01	1059327
PAIR OF SPANNERS	4.021 -2301-02	1012037
EXTENSION CABLE 30M, FOR PROBE, WITH SEALING PLUG	4.021 -1551-30	1010794
PULLING ROPE 35M	4.021 -2361-01	0086231

STANDARD COMPONENTS

CONTROL UNIT	4.021 -2111	1018906
CONTROL UNIT MOD. DLG	4.021.09-2111	1101803
POWER SUPPLY	4.021 -2121	1018914
PROBE BAR, TENSION RIBBON 400mm	4.021 -2132	1033387
CARRYING HANDLE	4.021 -2211	1067591
CARRYING STRAP	4.015 - 511	1067370
CARRYING BAG W	4.021 -2311	0139696
BALLAST WEIGHT	4.021 -2301-01	1059327
PAIR OF SPANNERS	4.021 -2301-02	1012037
EXTENSION CABLE 30M, FOR PROBE, WITH SEALING PLUG	4.021 -1551-30	1010794
PULLING ROPE 35M	4.021 -2361-01	0086231
DLG 4.021 DATALOGGER, GERMAN	4.811.01-1001	1584502
DLG 4.021 DATALOGGER, ENGLISH	4.811.02-1001	1599976
DLG 4.021 DATALOGGER, GPS NAVIGATOR GERMAN	4.811.03-1001	1599984
DLG 4.021 DATALOGGER, GPS NAVIGATOR ENGLISH	4.811.04-1001	1599992
DLG 4.021 DATALOGGER, CARTOGRAPH GERMAN	4.811.05-1001	1600109
DLG 4.021 DATALOGGER, CARTOGRAPH ENGLISH	4.811.06-1001	1600117
TRANSIT CASE, .	4.021 -2412	1179268
RUCKSACK W	4.021 -2421	0164143
CARRYING BAG, MODELL 8712/8	4.021 -2431	0139700
PROTECTIVE COVER F. CONTROL UN	4.021 -2441	0139718
PROTECTIVE COVER F. POWER SUP.	4.021 -2451	0139726
NI/CD-ACCUMULATOR SET	4.021 -2401-01	1059394
CHARGER ACCESSORIES, FOR NI/CD-ACCUS, 220/110V	4.021 -2401-02	1012088
D-CELL 1.5V, IEC LR20 (ALKALINE)	* 4020	0107166
EXTENSION TUBE F. CARRYING HAN	4.021 -2221	1059297
EARPHONE WITH CABLE 35M	4.021 -2341-01	1012053
EARPHONE WITH CABLE 110M	4.021 -2341-02	1067443
EARPHONE WITH CABLE 100M	4.021 -2341-03	1532480
HEADPHONE WITH CABLE 35M	4.021 -2341-50	1567470
EARPHONE 110M SPEC.	4.021 -2341-51	1567489

Designation	Part no.	Order no.
EXTENSION CABLE 100M, FOR PROBE, WITH SEALING PLUG	4.021 -1551- 100	1010735
EXTENSION CABLE 50M, FOR PROBE, WITH SEALING PLUG	4.021 -2351-01	1059416
EXTENSION CABLE 60M, FOR PROBE, WITH SEALING PLUG	4.021 -2351-02	1179284
EXTENSION CABLE 150M, FOR PROBE, WITH SEALING PLUG	4.021 -2351-03	1179292
EXTENSION CABLE 10M, FOR PROBE, WITH SEALING PLUG	4.021 -2351-04	1563734
EXTENSION CABLE 200M, FOR PROBE, WITH SEALING PLUG	4.021 -2351-05	1314904
EXTENSION CABLE 15M, FOR PROBE, WITH SEALING PLUG	4.021 -2351-08	1484516
EXTENSION CABLE 3M, FOR PROBE	4.021 -1521-03	1010662
EXTENSION CABLE 5M, FOR PROBE	4.021 -1521-05	1287923
EXTENSION CABLE 10M, FOR PROBE	4.021 -1521-10	1176986
EXTENSION CABLE 15M, FOR PROBE	4.021 -1521-15	1010689
CONNECTING CABLE, FOR EXTERNAL POWER SUPPLY	4.021 -1561-03	1010913
PULLING ROPE 110M	4.021 -2361-02	0141879
HEADPHONE WITH SPIRAL CABLE	4.400.01	1403150
HEADPHONE 2M	4.021 -2232	1018930
LOUDSPEAKER, TRAGBAR	4.021 -2235	1447521
START/STOP SWITCH, WITH CABLE	4.032.01-9008	1598368
DATA TRANSFER CABLE, DATALOGGER > PC	4.031.03-9901	1498606
CONNECTION DLG, MODIFICATION FEREX CONTROL UNIT	* 60 201	0043036
CALIBRATION, FEREX ¹⁾	4.021 KAL	1429736
DATALINE DE, W.DONGLE PARALLEL/SERIAL	4.800.01-8020	1524712
DATALINE EN, W.DONGLE PARALLEL/SERIAL	4.800.01-8024	1499084
DATALINE FR, W.DONGLE PARALLEL/SERIAL	4.800.01-8025	1499092
DATALINE IT, W.DONGLE PARALLEL/SERIAL	4.800.01-8023	1498584
DATALINE GPS DE, W.DONGLE PARALLEL/SERIAL	4.800.01-8027	1605100
DATALINE GPS EN, W.DONGLE PARALLEL/SERIAL	4.800.01-8028	1605178
DATALINE GPS FR, W.DONGLE PARALLEL/SERIAL	4.800.01-8029	1605208
DATALINE GPS IT, W.DONGLE PARALLEL/SERIAL	4.800.01-8030	1605399
OPERATING INSTRUCTIONS GERMAN, DATALINE/DATLINE GPS	4.800 UA06/DE	1536435
OPERATING INSTRUCTIONS ENGLISH, DATALINE/DATLINE GPS	4.800 UA06/DE	1536443
LEAFLET GERMAN, FEREX	4.021 UA01/D*9302	1381768
LEAFLET ENGLISH, FEREX	4.021 UA01/E*9302	1381806
USERS MANUAL GERMAN, FEREX	4.021 UA06/D	1348418
USERS MANUAL ENGLISH, FEREX	4.021 UA06/E	1348426
USERS MANUAL GERMAN, FEREX 4.021 DATALOGGER UPGRADE	4.811 UA06/DE	1600125
USERS MANUAL ENGLISH, FEREX 4.021 DATALOGGER UPGRADE	4.811 UA06/EN	1598511
WORKSHOP MANUAL GERMAN, FEREX	4.021 UA66/D	1377060
WORKSHOP MANUAL ENGLISH, FEREX	4.021 UA66/E	1377078
SPARE PARTS LIST ENGL., FEREX	4.021 UA14/E	1376993
PRODUCT INFORMATION FEREX 4.021/MK26	4.032 UA06DE/EN	1593757
DATALOGGER UPGRADE DATALINE		
APPLICATION TRAINING 2 DAYS, FEREX DLG	4.021.09 AS	1250728

1) If the FEREX is used as intended and stored properly, inspection and calibration at the works will not be necessary. The customer can have the FEREX inspected and calibrated by INSTITUT DR. FÖRSTER at extra charge if it has been subjected to excessive shock or has not been properly stored.

Should you have any special problems please contact:

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Information and illustration may
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