Advanced Test Equipment Rentals

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Ferrolux Systematic line and fault location

Ferrolux Systematic line and fault location



- Precise direction guidance with right/left arrows
- "SignalSelect" for clear route location
- Depth and signal current intensity measurement at the push of a button
- Route sensor weighs less than 1 kg for non-tiring use
- "DirectSignal" for effective line location

DESCRIPTION

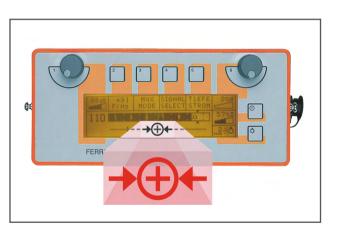
The Ferrolux location system is the solution for your day-today tasks. You can use the system to quickly and easily find cable faults. You can locate lines just as quickly, measure how deep they are and save data including GPS co-ordinates in the memory.

The route sensor for location tasks weighs less than 1 kg, which means you can use it for lengthy periods without getting tired.

Special features such as the SuperMax Signal, DirectSignal and SignalSelect make your job easier and the results more accurate.

SignalSelect

SignalSelect is a patented method for finding the direction of a signal on a line, and greatly increases the certainty and efficiency of route location. This method is particularly useful in areas where several systems are in close proximity. The Ferrolux generators produce a specially encoded audio frequency signal, which is fed in directly or inductively. The FLE 10 / FS 10 receiver system selects the signal via the target line and identifies the direction of signal flow.

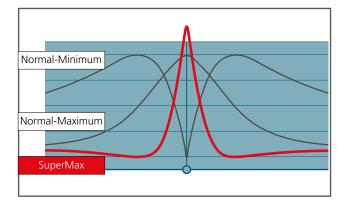


- Clear display
- **\rightarrow** Signal flow from the generator to the remote end
- → ⊖ ← Signal flow from the remote end to the generator
- Independent of line length
- For any type of line (cable, pipe)
- Inductive or direct signal connection

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SuperMax

The existing Maximum method is relatively inaccurate, and has therefore mostly used for ground surveys. The Ferrolux FLE 10 / FS 10 receiver system combines the conventional Maximum and Minimum methods to achieve a new, improved method called SuperMax. Even relatively untrained operators can use this method to achieve excellent location results.



Maximum method

Advantage: optimum reception via the line Drawback: very broad location range

Minimum method

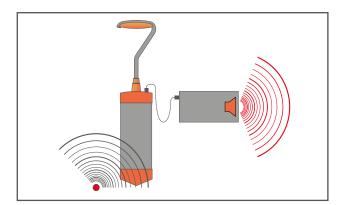
Advantage: very accurate location *Drawback:* very susceptible to asymmetric field geometry

SuperMax method

Very accurate location with an optimum signal via the line and no signal beside the line

DirectSignal

An analogue reception signal is directly audible through the internal loudspeaker or headphones. Listening to the reception signal increases available information, and supports the visually displayed information on the receiver, facilitating effective line location. There are separate knobs for setting the signal amplification and volume.

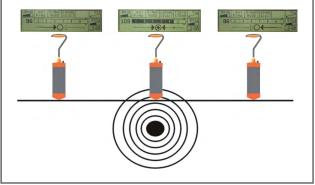


- Directly audible analogue reception signal
- Highly sensitive antennas for signal reception
- Filtering and adjustment for the optimum audible range

Directional left/right guidance

The arrows show you whether to move the FS 10 route sensor to the left or right in order to keep it directly over the line. The arrow shaft shortens the closer you are to the line.

A marking across the arrow shaft appears when the FS 10 route sensor reaches a 45° angle to the side to the line.



- Clear direction display
- Distance-based direction display
- Clear indication when the user is standing over the line

FLE-I Log PC software

The I-Log software allows you to import the route data stored in the Ferrolux receiver. Combined with the optional GPS module, it provides precise data on the route, detected faults and their positioning.

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TECHNICAL DATA*



Generators

Output power Increment Output frequencies Custom frequencies available (<10 kHz) Operating temperature Protection class Dimensions Weight SignalSelect Measuring functions

Power supply Operating time Impedance adjustment FLG 10 0 ... 10 Watt 0.5 Watt 491 Hz / 982 Hz / 8440 Hz yes

- 20 °C ... + 50 °C IP 54 250 x 120 x 170 mm 2.9 kg yes Loop impedance Voltage Current NiMh 12 V / 4 Ah approx. 2.5 h at 10 Watt 0.5 ... 1024Ω



FLG 50 0 ... 50 Watt 2.5 Watt 491 Hz / 982 Hz / 8440 Hz yes

- 20 °C ... + 50 °C IP 54 410 x 175 x 335 mm 14 kg yes Loop impedance Voltage Current Lead gel battery 12 V / 12 Ah approx. 6 h $0.5 \dots 1024 \Omega$



FLG 200

0 ... 200 Watt 10 Watt 491 Hz / 982 Hz / 8440 Hz yes

- 20 °C ... + 50 °C IP 20 450 x 320 x 133 mm 12 kg yes Loop impedance Voltage Current 100 ... 240 V AC Mains operation only 0.5 ... 1024 Ω

Audio frequency receiver FLE 10

Receiver frequencies

passive	50 Hz/60 Hz/100 Hz/120 Hz	
active	491 Hz/982 Hz/8440 Hz	
Dynamic range	referred to a cable depth = 1 m	
50 HZ	10 mA 10,000 A	120 dB
491 Hz	400 µA 400 A	120 dB
982 Hz	180 µA 180 A	120 dB
8440 Hz	20 µA 20 A	120 dB
Depth measurement	0.1 m 7 m	
	(active frequencies only)	
Current measurement	1 mA 400 A/180 A/20 A	
Power supply /	Alkaline batteries 4 x LR 6	>20 h
Operating time	NiCd/NiMh 4 x R 6	>13 h
Dimensions (W x H x D)		
FLE 10	220 x 100 x 110 mm	
FS 10	550 x 100 x 40 mm (without	handle)
Weight		
FLE 10	approx. 1.5 kg	
FS 10	approx. 0.9 kg	
Temperature range	- 20 °C + 55 °C	

ALL THE ADVANTAGES OF THE FERROLUX GENERATORS AT A GLANCE

- Automatic impedance adjustment
- Automatic or manual frequency selection
- Multi-frequency operation transmits three frequencies simultaneously
- Displays output voltage which is dangerous to touch
- Overload protection/display

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Further information about probes or pipline sondes and additional accessories can be found in the brochure "Fibreglass location cables and probes".

Product	Order-No.
FL 10-Set	813123
Ferrolux System with 10 W Transmitter incl. Signal Select	
FLE 10 Receiver with Signal Select Function	
+ Search coil, Set of cables, Headphones	
FLG 10 AF-Generator 10 W with Signal Select Function	
+ Connection cables, Charger	
FL 50-Set	813134
Ferrolux System with 50 W Transmitter incl. Signal Select	
FLE 10 Receiver with Signal Select Function	
+ Search coil, Set of cables, Headphones	
FLG 50 AF-Generator 50 W with Signal Select Function	
+ Connection cables in soft carry bag	

 \ast We reserve the right to make technical changes.

ORDER INFORMATION		
Product	Order-No	
Ferrolux Receiver	82000362	
■ FLE 10 Receiver with Signal Select Function		
+ Search coil, Set of cables, Headphones		
FLG 200	82000072	
Audio-Frequency Generator 200 W portable incl. Signal Select		
FLG 200 Transmitter with Signal Select Function		
+ FLG 200 Transmitter with Signal Select Function, Set of cables		
Accessories		
Standard headphones (standard equipment)	899003874	
Reel with 25 m lead (contact proof)	810002785	
Reel with 100 m lead (contact proof)	810002784	
Step voltage sensor with three frequencies	899005110	
Cable selection drum	899003640	
Transmitter coil 8440 Hz for FLG 10	810695	
Separation filter 10 W	820008823	
 Transmitter clamp 50 mm	81000093	
 Transmitter clamp 100 mm	810003540	
Transmitter connection lead for UZ 100	810002164	
Flexible universal tongs UZF 150	810003542	
Threading device for UZF 150	81066	
Transmitter coil 9820 Hz	810394	
Case for FL 10 complete and FL 10 single receiver	810002598	
Vehicle charging lead for FLG 10	8100001	
Vehicle charging lead for FLG 50	81000000	
HDR 10-T	128311960	
Audio Frequency Coupler - Set 10 W for FLG 200 HDR 10-T-K Coupler, HDR 10-T-GS Audio-Frequency Generator protection, Set of cables, Tripod		

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