Ferrolux FL 10 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-to-day 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.

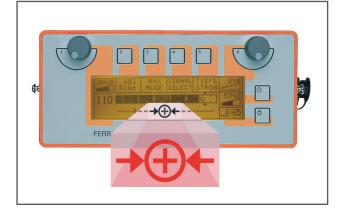
The route sensor for location tasks weighs less than 1 kg, which means you can use it for lengthy periods without getting tired.

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.

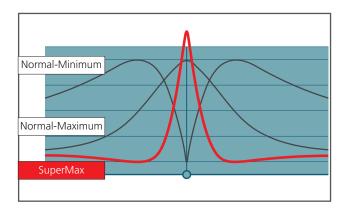


- Clear display
- →⊕← Signal flow from the generator to the remote end
- → Signal flow from the remote end to the generator
- Independent of line length
- For any type of line (cable, pipe)
- Inductive or direct signal connection

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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

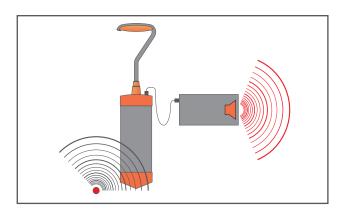
Drawback: very susceptible to asymmetric field geometry

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.

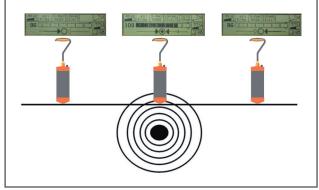


- Directly audible analogue reception signal
- Highly sensitive antennas for signal reception
- Filtering and adjustment for the optimum audible range

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	FLG 10	FLG 50	FLG 200
Output power	0 10 Watt	0 50 Watt	0 200 Watt
Increment	0.5 Watt	2.5 Watt	10 Watt
Output frequencies	491 Hz / 982 Hz / 8440 Hz	491 Hz / 982 Hz / 8440 Hz	491 Hz / 982 Hz / 8440 Hz
Custom frequencies available	yes	yes	yes
(<10 kHz)			
Operating temperature	-20°C +50°C	-20°C +50°C	-20°C +50°C
Protection class	IP 54	IP 54	IP 20
Dimensions	250 x 120 x 170 mm	410 x 175 x 335 mm	450 x 320 x 133 mm
Weight	2.9 kg	14 kg	12 kg
SignalSelect	yes	yes	yes
Measuring functions	Loop impedance	Loop impedance	Loop impedance
	Voltage	Voltage	Voltage
	Current	Current	Current
Power supply	NiMh 12 V / 4 Ah	Lead gel battery 12 V / 12 Ah	100 240 V AC
Operating time	approx. 2.5 h at 10 Watt	approx. 6 h	Mains operation only
Impedance adjustment	0.5 1024 Ω	0.5 1024 Ω	$0.5\ldots1024\Omega$

Audio frequency receiver FLE 10

Receiver frequencies

 passive
 50 Hz/60 Hz/100 Hz/120 Hz

 active
 491 Hz/982 Hz/8440 Hz

 $\textbf{Depth measurement} \hspace{1.5cm} \textbf{0.1} \hspace{.1cm} \textbf{m} \ldots \textbf{7} \hspace{.1cm} \textbf{m}$

(active frequencies only)
1 mA ... 400 A / 180 A / 20 A

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 kgFS 10 approx. 0.9 kgTemperature range $-20 \,^{\circ}\text{C} \dots + 55 \,^{\circ}\text{C}$

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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SPECIAL ACCESSORIES



DEB 3-10 step voltage sensor with three frequencies



Separation filter 10 W



Cable selection drum



Transmitter coil 8440 Hz



Standard headphones



Transmitter clamp 100 mm

ORDERING INFORMATION			
Product	Order no.		
FLG 10 set	813123		
FLG 50 set	813134		
FLG 200 portable set	820000072		
Accessories			
Standard headphones	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	810000093		
Transmitter clamp 100 mm	810003540		
Flexible universal tongs UZF 150	810003542		
Threading device for UZF 150	810668		
Transmitter coil 9820 Hz	810394		
Case for FL 10 complete and FL 10 single receiver	810002598		
Vehicle charging lead for FLG 10	810000019		
Vehicle charging lead for FLG 50	810000006		



Transmitter clamp 50 mm



Flexible universal tongs UZF150

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

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^{*} We reserve the right to make technical changes.