

Systematic line and
fault location

Ferrolux FL 10



Benefits:

- ▶ **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**



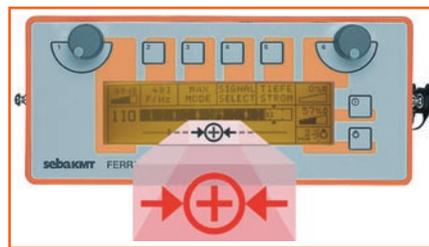
sebaKMT

Systematic line and fault location

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

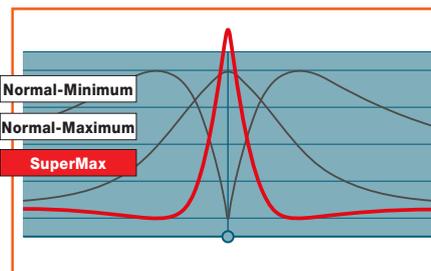
SignalSelect, a patented method for finding the direction of a signal on a line, greatly increases the certainty and efficiency of route location. This method is particularly useful in areas where several systems are in close proximity. The Ferrolux generators produce a specially encoded audio frequency 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

► SuperMax

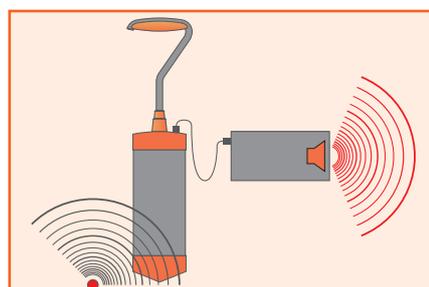
The existing Maximum method is relatively inaccurate, and has therefore mostly been used for ground surveys. The Ferrolux FLE 10 / FS 10 receiver system combines the conventional Maximum and Minimum methods to achieve a new, improved method called SuperMax. Even relatively untrained operators can use 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 geometries
- **SuperMax method**
Very accurate location with an optimum signal via the line and no signal beside the line

► DirectSignal

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



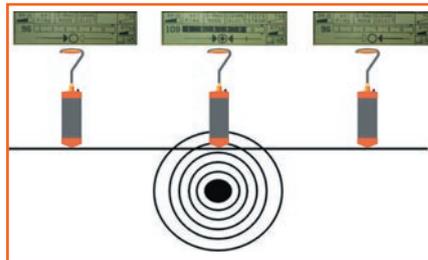
- Directly audible analogue reception signal
- Highly sensitive antennas for signal reception
- Filtering and adjustment for the optimum audible range

Ferrolux FL 10

► 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 above 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

► All the advantages of the SebaKMT 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

| | 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 (>10 kHz) | yes | yes | yes |
| 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 Voltage Current | Loop impedance Voltage Current | Loop impedance Voltage Current |
| Power supply | NiMh 12 V / 4 Ah | Lead gel battery 12V /12 Ah | 100 ... 240 V AC |
| Operating time | approx. 2.5 h at 10 W | approx. 6 h | Mains operation only |
| Impedance adjustment | 0.5 ... 1024 Ω | 0.5 ... 1024 Ω | 0.5 ... 1024 Ω |

We are happy to provide you with information!

► FLE-I Log PC software

The SebaKMT 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, position and detected faults.



► Special accessories

- Transmitter clamp (50 mm and 100 mm) (fig. 1)
- DEB 3-10 step voltage sensor with three frequencies (fig. 2)
- Cable selection drum (fig. 3)
- GOK 50-R location cable for locating non-metallic pipelines (fig. 4)
- MLS pipeline transmitter available in different frequencies (fig. 5)



**For more information, see:
www.sebakmt.com**

SebaKMT
Dr.-Herbert-lann-Str. 6
96148 Baunach/Germany
Tel. +49(0) 95 44 - 6 80
Fax +49(0) 95 44 - 22 73
sales@sebakmt.com
www.sebakmt.com

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Our range of products: Equipment and systems to locate faults in power and communications networks, as well as for leak location on pipe networks · line location equipment · seminars · service · contracting.

Technical data subject to change without notice.

ISO 9001:2000