

# Multi-frequency line location system

# i5000



## Benefits:

- ▶ **Precise direction guidance using right/left arrows**
- ▶ **“Signal Select” and “Distortion Alert” for the evaluation of signals**
- ▶ **Simple recognition of changes in the direction of the target conductor using “Guidance Compass”**
- ▶ **Integrated high-performance battery**
- ▶ **Automatic & manual sensitivity control**
- ▶ **Depth and signal current intensity measurement at the push of a button**



**sebaKMT**

# Multi-frequency line location system

With the new i5000, SebaKMT provides you with the most modern line location system of today. It includes several functions that facilitate your daily location work and makes the results more reliable and informative!

## Features of the i5000 receiver

The centrepiece of the i5000 line location system is the multi-frequency receiver. The main task of the receiver of a line location system is to give precise information on the position of the target conductor, in particular the centreline and the depth. Problems occur repeatedly during the line location process, e. g. field distortions caused by discharge or the coupling of neighbouring lines.

The i5000 receiver has new evaluation options that reduce the current subjective assessment during the location process, thus increasing the locating accuracy.



The one evaluation option is referred to as "Signal Select". It allows the clear identification of the target conductor by means of a positive or negative sign.



The second option is referred to as "Distortion Alert". An indicator analyses the quality of the received signal and any field distortions are indicated. The less red the colour of the indicator is, the better the received signal is.

The line direction is also displayed in this indicator by means of a „Guidance Compass“. The course of the pipeline can thus be identified clearly and connections & branches can be found quickly and reliably.



## The most important features of the i5000 receiver at a glance:

- ▶ Numerous active frequencies from 491 Hz to 82 kHz as well as passive frequencies for power, radio and cathodic corrosion protection signals
- ▶ Line identification with "Signal Select" and "Distortion Alert"
- ▶ "Guidance Compass" for easier recognition of the direction of the pipeline and for finding connections & branches quickly
- ▶ Depth and signal current intensity measurement at the push of a button
- ▶ User switchable between automatic and manual sensitivity control
- ▶ Colour display with automatic backlight
- ▶ Bluetooth® interface for e.g. software updates
- ▶ Rechargeable Li-Ion battery for continuous operation of 30 hours
- ▶ IP54 protection class
- ▶ Automatic recognition of accessories

Bluetooth® is a registered trademark of the Bluetooth SIG Inc.

# i5000

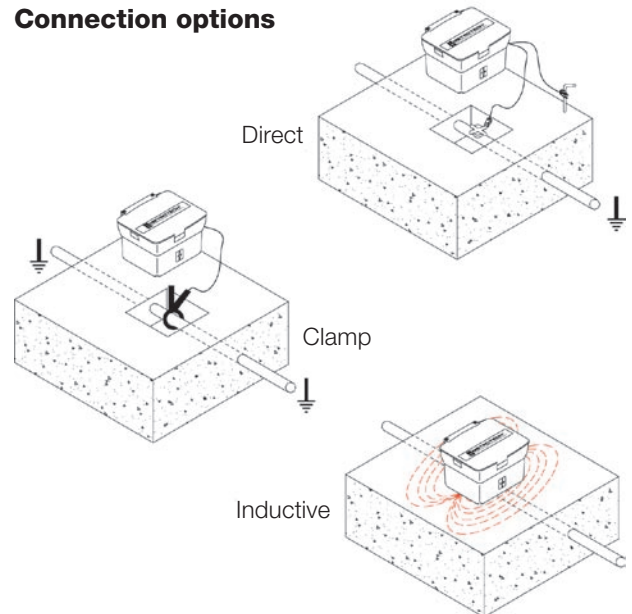
## Features of the i5000 transmitter

The transmitter of the i5000 series generates the active location signals that are registered by the receiver. Both the line identification with „Signal Select“ and the function for warning against field distortions - „Distortion Alert“ - require the use of the transmitter.

You can also use the i5000 transmitter to measure the line impedance and select the optimum output power manually or automatically.

The i5000 transmitter allows measurements of the parameters in volts, ohms, amperes and watts. The location technician is thus provided with an important overview of the nature of the earth line and the induced output signal.

## Connection options



## The most important features of the i5000 transmitter at a glance:

- ▶ The frequency range can be extended; the basic version already has 6 active frequencies
- ▶ Simultaneous transmission of up to 3 active frequencies. The optimum frequency is thus selected simply - on location - at the receiver
- ▶ Selectable inductive output for every frequency in the range between 8.4 kHz and 82 kHz
- ▶ Automatic adjustment of the impedance in the range between 5 ohms and 5 kohms
- ▶ Automatic recognition of accessories
- ▶ Graphical LCD display for the indication of the parameters (among others): current, drag resistance and output power.
- ▶ Graphical indication of the output power and the line resistance
- ▶ Operation via the integrated rechargeable battery
- ▶ Optional sheath fault location function

# We are happy to provide you with information!

## Standard scope of delivery

- ▶ Receiver
- ▶ Transmitter
- ▶ Earthing set
- ▶ Charger with 240 V and 12 V connections
- ▶ Hard Carry case
- ▶ Operating instructions



## Frequency set

The standard i5000 location system is provided with the following frequencies:

- ▶ Passive frequencies: power, radio and cathodic corrosion protection signal
- ▶ Active frequencies: 491 Hz, 982 Hz, 8.44 kHz, 9.82 kHz, 35 kHz, 82 kHz
- ▶ Optional Extension: More frequencies are available on request. Update via the integrated Bluetooth interface.

## Special accessories

- ▶ i5000 transmission clamp (50 mm and 100 mm) (figure 1)
- ▶ Signal Select transmission clamp 100 mm (figure 2)
- ▶ Transmitter option for searching for sheath faults with A frame receiver for the precise location of sheath faults. (figure 3)
- ▶ Cable selection drum (figure 4)
- ▶ GOK 50-R location cable for the location of non-metallic pipelines (figure 5)
- ▶ MLS pipeline transmitter available in different frequencies (figure 6)



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**

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