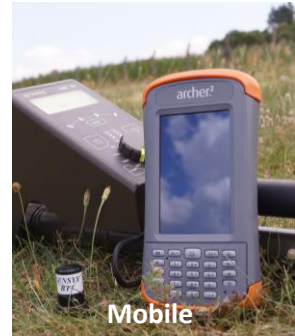


## SENSYS® Iron Locator

### SBL 10



#### Features

- Very light and compact UXO hand held detector - 3.7 kg operating weight
- Rugged FGM400 probe with detection range of  $\pm 30,000\text{nT}$
- Simple and intuitive handling/reading
- No assembly of device needed due to folding mechanism
- Low power consumption/ intelligent power control
- Rugged transport casing

#### Options

- 2<sup>nd</sup> probe with cable for borehole or water surveys
- Data recording with PDA
- Head phone
- Soft case

The SBL10 is a very compact handheld device for detection of ferromagnetic objects in the ground. With only 3.7 kg and a clearly arranged control display, the SBL10 is easy and intuitive to operate. Due to its folding mechanism the SBL10 needs no assembly and is ready within seconds.

When being used with an additional probe FGM400/38 and cable (simply connected to the top of the SBL10 control unit) the device is ready for borehole or underwater surveys.

The measurement range of both probes is  $\pm 30,000\text{nT}$  and enables detection of smallest pieces as well as of deeply buried heavy objects in depths of five to six meters.

Three different modes allow for surveys on clear or noisy ground as well as in front of fences or rails.

Two battery compartments are used in sequence with an intelligent power management to ensure more than 100 working hours with only one set of standard LR20 batteries. The connection of the additional probe as well as wireless connectable rugged PDA for data recording always keeps the SBL10 as slim as possible but as flexible as needed.

On top, all parts fit into a light weight fully rugged casing that is easy to store and transport.

**NATO Stock Number**  
6695 1239 10151

# Technical Data SBL10

General Technical Data		
Power Supply	4.5 V	
Battery	2x3 batteries 1.5 V single cell LR20	
Battery Life	6 batteries = approximately 120 hours	
Operating Temperature	-20°C to +60°C	
Operating Weight (without casing)	3.7 kg (incl. 6 batteries)	
Dimensions (L x W x H) when folded	950 x 130 x 200 mm	
Measurement Configuration		
Visible measurement range	±30,000 nT	
Sensitivity levels	9	
Display	Analogue pointer with ±10 scale division;	
Resolution	0.075 nT at 0.3 nT measurement range	
	SBL10 probe*	FGM400/38* (optional)
Maximum ambient field	±75,000 nT	±75,000 nT
Specified measurement range	±38,460 nT	±38,460 nT
Sensor Element Spacing	400 mm	400 mm
Point of reference	378 mm**/4 mm***	378 mm**/4 mm***
Declination	±3 nT	±3 nT
Resolution	0.2 nT	0.2 nT
Noise	>10...<40 pT/√Hz @ 1Hz	>10...<40 pT/√Hz @ 1Hz
Cut off frequency (Bandwidth)	20 Hz	20 Hz
Temperature drift	<0,3 nT/K	<0,3 nT/K
Drift over time	t.b.d.	t.b.d.
Uncertainty of measurement	1,000 nT/1%****	1,000 nT/1%****
Stability	< 1nT	<1 nT
Linearity	±4 nT / <0.01%	±4 nT / <0.01%
Compensation range	n.a.	
Probe Diameter	40 mm	35 mm
IP code	IP65	IP68K 100m available
Casing		
Dimensions (L x W x H)	1,040 x 330 x 180 mm	
Weight	5.5 kg	
Optional accessories		
Rugged PDA (optional with Bluetooth dongle)	For borehole and single channel measurements	
Connection cable	15 m, sealed; other lengths on request	
Head phone	Customizable cable length	
Soft carry bag	1.5 kg (empty)	
2-point carry belt		

\*according DIN 54145

\*\*measured from edge between head and tube

\*\*\*from the symmetry axis

\*\*\*\*un-calibrated / calibrated

