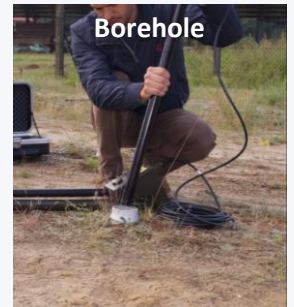
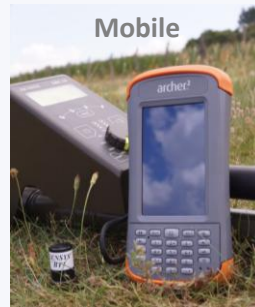


Iron Locator SBL10



Features

- Very light and compact UXO hand held detector - 3.7 kg operating weight
- Rugged FGM400 probe with detection range of $\pm 30,000$ 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

- 2nd 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 $\pm 30,000$ 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	<40 pT/√Hz @ 1Hz	<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