

Magnetometer

 vallon.de

VX1

Kit “Surface and SEPOS[®]-Borehole with SEPOS[®]-Detector”

Modular UXO Detector Kit for Use for Surface,
Borehole and Underwater



Searching with Excellence



VX1 – Magnetometer Kit “Surface and SEPOS®-Borehole with SEPOS®-Detector”

Modular UXO Detector Kit for Use for Surface, Borehole and Underwater

The VX1 is a modular UXO detector system for ferrous object detection. It is extremely rugged and offers high search sensitivity.

It offers easy operation and meets toughest demands in civil, humanitarian and military ordnance disposal. This versatile device quickly collects data in conjunction with data acquisition devices from VALLON. For professional data analysis and documentation, VALLON’s product portfolio offers corresponding software solutions.

In addition, the detachable digital probe VSM4 offers the flexibility for use in all VALLON multichannel systems. In combination with an optional SEPOS®-detector, the high-performance SEPOS® positioning system provides increased data quality thanks to its ability to compensate speed changes during data recording in boreholes.

- ✓ Kit with all hardware for surface, borehole and underwater use
- ✓ Modular magnetometer system for UXO detection down to great depths
- ✓ Polarity dependent Alarm indication by LED and audio signal
- ✓ Interfaces: USB, Bluetooth® and serial
- ✓ Direct communication to VALLON Hard- and Software for datalogging.
- ✓ No sensor adjustment required
- ✓ Detachable digital probe VSM4 for flexible use in all VALLON multichannel systems



VX1 Kit “Surface and SEPOS®-Borehole with SEPOS®-Detector” – Data Sheet

Technical Data and Features

TECHNICAL DATA

Sensor	Probe Sensor distance: 50 cm (19.69 in) Sensor tube diameter: Ø 3.2 cm (Ø 1.26 in) Measuring range: ± 20,000 nT
Alarm signal	Visual (LED) / Audio
Watertight	Device: IP68, 1.5 m (30 min at 20°C) Digital probe VSM4: IP68, 60 m
Dimensions*	Bag cable drum – Standard: 45 x 31 x 39 cm (17.72 x 12.20 x 15.35 in) Backpack – Standard: 81 x 16 x 11 cm (31.89 x 6.30 x 4.33 in) Backpack in case – Standard: 84 x 30 x 17 cm (33.07 x 11.81 x 6.69 in) <i>*Toleranz ± 3 %</i>
Ambient conditions	In accordance with MIL-STD-810G (F501.4-I, II, F502.4-I, II, F503.4-I, F506.4-III, F512.4-II, F516.5-IV)
Ambient temperature	-31°C – +63°C (-24°F – +145°F) <i>Attention: Temperatures without field computer</i>
Storage temperature	-33°C – +71°C (-27°F – +160°F) <i>Attention: Temperatures without field computer</i>
Weight*	Components kit „surface“ complete: 9,20 kg (20,28 lbs) Components kit „borehole with cable drum SEPOS®“ complete 7,20 kg (15,87 lbs) <i>*Toleranz ± 10 %</i>
Disposable/ rechargeable battery	4 x Mono 1.5 V alkaline battery (LR20) – Standard 4 x Mono 1.2 V NiMH rechargeable battery (HR20)
Disposable/rechargeable battery operating time*	Alkaline batteries: About 75 h NiMH rechargeable batteries (10,000 mAh): About 75 h <i>*Ambient temperature 20 °C, LR20: Varta Industrial, HR20: NiMH rechargeable batteries, without Bluetooth®</i>

Subject to change based on technological developments.

FEATURES



Bluetooth® interface for wireless data transfer



Waterproof up to 60 meters

Scope of delivery VX1 Kit “Surface and SEPOS®-Borehole with SEPOS®-Detector”

Basic package | Item No. 2003170006



Backpack VX1
Item No. 8903170610



Case VX1
Item No. 2903170410



Headset VX1/VXT1
Item No. 2903170320



Carrying strap VX1
Item No. 8903170820



Control unit VX1
Item No. 2903170040



Carrying bar VX1
Item No. 2903170030



Digital probe VSM4
Item No. 2005320010



Cable drum VX1 SEPOS®, 15/12 m
Item No. 2903170470



Borehole Shaft Guard
Item No. 2900130170



Carrying bag VX1 cable drum
Item No. 2903170401



Hook wrench
Item No. 9150006024



Extra weight
Item No. 2909990631



Ring screw
Item No. 2909990105



**Alkaline battery 1.5 V Mono LR20,
4 ea.**
Item No. 5910001006S4



Operation manual VX1
Item No. 2903170330



Backpack packing sketch VX1
Item No. 8903170890

Accessories

VX1 – Magnetometer-Kit “Surface and SEPOS®-Borehole with SEPOS®-Detector”



Hard case VX1 with insert
Item No. 2903170530



Transport bag for digital probe VSM4
Item No. 2903170450



External battery charger
100-240V/50-60Hz, 12V
Item No. 2909990847



Connection cable SEPOS®-Borehole (VX1)
Item No. 2503170040



Detector SEPOS®-Borehole
Item No. 2900130130



Alkaline battery 1.5 V Mono LR20
Item No. 5910001006



Rechargeable battery NiMH 1,2 V Mono HR20/10.000 mAh
Item No. 5920001006



Alkaline battery 1.5 V Mono LR20, 4 ea.
Item No. 5920001006S4



Data Acquisition and Evaluation



EVA4mobile® – Integrated license in combination with field computer VFC4.1
Item No. 2405350010



VFC4 – Small Field Computer for EVA4mobile®
Item No. 2005350001



EVA4mobile® – Bluetooth® Beacon for temporary license activation
Item No. 2009080000



EVA4ALL® – Evaluation Software for Surface and Borehole Survey
Item No. 2009090000



Hand switch start/stop VX1
Item No. 2503170160

VALLON – A strong Partner

Experience is irreplaceable

As a family-run business from Eningen in Germany we became a global player within the field of explosive ordnance detection and the assessment of contaminated sites. All our activities focus on providing our customers with the best product for the respective application.

✓ GUIDANCE

From the initial contact to the selection of the optimal detector system and to the point of the professional start of operation – VALLON accompanies the complete process and supports you in a competent and professional manner.

✓ DETECTORS

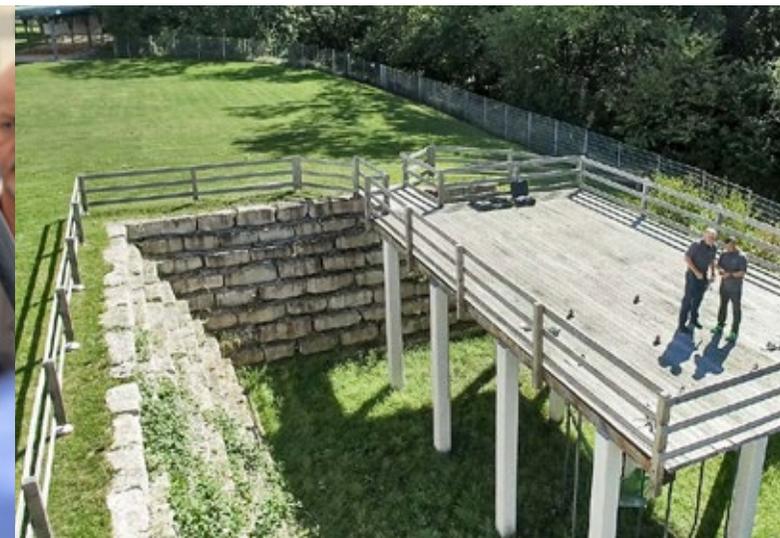
Our product portfolio includes efficient solutions for detecting mines, improvised explosive devices (IEDs) and unexploded ordnance (UXO) – for the use on land, underwater and in boreholes.

✓ SOFTWARE

With the EVA4mobile® and the EVA4ALL® VALLON offers powerful software for data acquisition, evaluation and documentation. The firmware of VALLONs fourth generation of metal detectors is subject to continuous further development and can be adapted to satisfy specific customer requirements.

✓ TRAINING

In order to optimally prepare the user for their daily work VALLON offers custom-tailored training. The training courses can take place upon agreement on site or directly at VALLON in Eningen, Germany.





THE PATH TO BECOMING A GLOBAL PLAYER

One year after launching the EL 1300 iron detector for applications on land, the EW 1500 followed. It was designed for use under water and in boreholes. The enhanced next generation, EW 1501 and EW 1502, were able to output graphical measurement curves using a thermal recorder.

Learn more under
www.vallon.de/en/history

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