

Magnetometer

vallon.de

# VX1

## Kit „Surface and SEPOS®-Borehole”

Modular UXO Detector Kit  
for Use on Land, in Boreholes  
and Underwater



*Searching with Excellence*



# VX1 – Magnetometer Kit „Surface and SEPOS®-Borehole”

Modular UXO Detector Kit for Use on Land,  
in Boreholes 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 the 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 VSM 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 VSM for flexible use in all VALLON multichannel systems



# VX1 Kit „Surface and SEPOS®-Borehole” – Data Sheet

## Technical Data and Features

### TECHNICAL DATA

<b>Sensor</b>	Probe Sensor distance: 50 cm (19.69 ") Sensor tube diameter: Ø 3.2 cm (Ø 1.26 ") Measuring range: ± 20,000 nT
<b>Alarm signal</b>	Visual (LED) / Audio
<b>Watertight</b>	Device: IP68, 1.5 m (30 min at 20°C) Digital probe VSM: IP68, 60 m
<b>Dimensions*</b>	Bag cable drum – Standard 45 x 31 x 39 cm (17.72 x 12.20 x 15.35 ") Backpack – Standard 81 x 16 x 11 cm (31.89 x 6.30 x 4.33 ") Backpack in case – Standard 84 x 30 x 17 cm (33.07 x 11.81 x 6.69 ") <i>*Toleranz ± 3 %</i>
<b>Ambient conditions</b>	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)
<b>Weight*</b>	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>
<b>Disposable/ rechargeable battery</b>	4 x Mono 1.5 V alkaline battery (LR20) – Standard 4 x Mono 1.2 V NiMH rechargeable battery (HR20)
<b>Disposable/rechargeable battery operating time*</b>	Alkaline batteries: About 100 h NiMH rechargeable batteries (10,000 mAh): About 100 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”

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 VSM**  
Item No. 2909990674



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



**Carrying bag VX1 cable drum**  
Item No. 2903170400



**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”



Hard case VX1 with insert  
Item No. 2903170530



Transport bag for digital probe VSM  
Item No. 2903170450



External battery charger  
100-240V/50-60Hz, 12V  
Item No. 5900001010



Connection cable SEPOS®-Borehole  
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  
Item No. 2405350010



VFC4 – Small Field Computer  
for EVA4mobile®  
Art.-Nr. 2005350000



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  
Art.-Nr. 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.

### ✓ 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.

### ✓ 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.

### ✓ 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](http://www.vallon.de/en/history)



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