

Magnetometer

vallon.de

# VXB3.1 with VFC4.2

Magnetometer Kit,  
optimized for Continuous Use  
in Boreholes ( $\pm 300,000$  nT)



*Searching with Excellence*



# VXB3.1 – Magnetometer Borehole with VFC4.2

Magnetometer Kit, optimized for Continuous Use in Boreholes ( $\pm 300,000$  nT)

The VXB3.1 borehole detector together with its components provides an extremely reliable detection system for locating ferromagnetic objects in soil. As a result, it meets toughest borehole detector performance requirements in civil and military ordnance removal.

Thanks to the extremely large compensation range of the new built-in digital probe VMS4plus, the start-up is greatly facilitated.

The survey data can be displayed and reviewed immediately on the VALLON field computer VFC4.2 as a curve. The data can be analyzed on the desktop PC in detail later using VALLON evaluation software available as an option.

- ✓ Measuring range up to  $\pm 300,000$  nT
- ✓ Compensation range of  $\pm 75,000$  nT
- ✓ Rugged construction and low weight
- ✓ Extremely fast start-up
- ✓ Simple operation
- ✓ No sensor calibration required
- ✓ Android app EVA4mobile® for recording borehole and surface data
- ✓ Powerful 6.3-inch VFC4.2 field computer for processing extremely large data volumes



# VXB3.1 – Data Sheet

## Technical Data and Features

### TECHNICAL DATA

<b>Sensor</b>	Probe Sensor distance: 50 cm (19.69 in) Sensor tube diameter: Ø 3.2 cm (Ø 1.26 in) Measuring range: ± 300,000 nT Compensation range: ± 75,000 nT
<b>Alarm signal</b>	Visual (VFC4.2)
<b>Watertight</b>	Digital probe VSM4plus: IP68, 60 m
<b>Dimensions*</b>	Case sensor set 102 x 43 x 17 cm (40.15 x 16.93 x 6.69 in) Case electronic set 52 x 44 x 20 cm (20.47 x 17.32 x 7.87 in) <i>*Tolerance ± 3 %</i>
<b>Ambient temperature</b>	-31°C – + 63°C (-24°F – +145°F)
<b>Storage temperature</b>	-33°C – +71°C (-27°F – +160°F) <i>Attention: Storage temperature without battery</i>
<b>Weight*</b>	Case sensor set – including standard scope of delivery 12 kg (26.45 lbs) Case electronic set – including standard scope of delivery 7 kg (15.43 lbs) <i>*Tolerance ± 10 %</i>
<b>Disposable/ rechargeable battery</b>	Rechargeable battery pack – Standard
<b>Disposable/rechargeable battery operating time*</b>	Rechargeable battery pack with VCU3: About 13 h <i>*Ambient temperature of around 20 °C, rechargeable battery pack.</i>

### FEATURES



Bluetooth® interface for wireless data transfer



Waterproof up to 60 meters

# Scope of Delivery VXB3.1

Basic package | Item No. 2002590203



Case sensor set VXB3.1  
Item No. 2902590081



Case electronics set VXB3.1  
Item No. 2902590162



Digital probe VSM4plus  
Item No. 2005320020



EVA4mobile® – Integrated license in  
combination with field computer VFC4.2  
Item No. 2405350010



VFC4.2 – Small Field Computer  
for EVA4mobile®  
Item No. 2005350002



Central electronics unit VCU3  
Ambient temperature: -20°C – +50°C  
Storage temperature: -31°C – +60°C\*  
Item No. 2002540310



Sensor cable VXB3.1 SEPOS®,  
15 m/12 m  
Item No. 2502590201



Waist belt  
Item No. 9150006007



Carabiner for belt  
Item No. 8902590005



Hook wrench  
Item No. 9150006024



Ring screw  
Item No. 2909990105



Extra weight  
Item No. 2909990631



Kit Battery charger  
Item No. 2902540110



Battery VXB2/VXB3.1  
Item No. 2902540104



Operation manual VCU2  
Item No. 8902540103



Operation manual VFC4.2  
Item No. 8905350002

\*Attention: Storage temperature without battery

# Accessories

## Magnetometer VXB3.1



**Borehole Shaft Guard**  
Item No. 2900130170



**Sensor set VXB3.1**  
Item No. 2902590201



**Detector SEPOS®-Borehole**  
Item No. 2900130130



**Connection cable SEPOS®-Borehole (VCU)**  
Item No. 2500130032

Data evaluation



**EVA4ALL®**



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

# 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

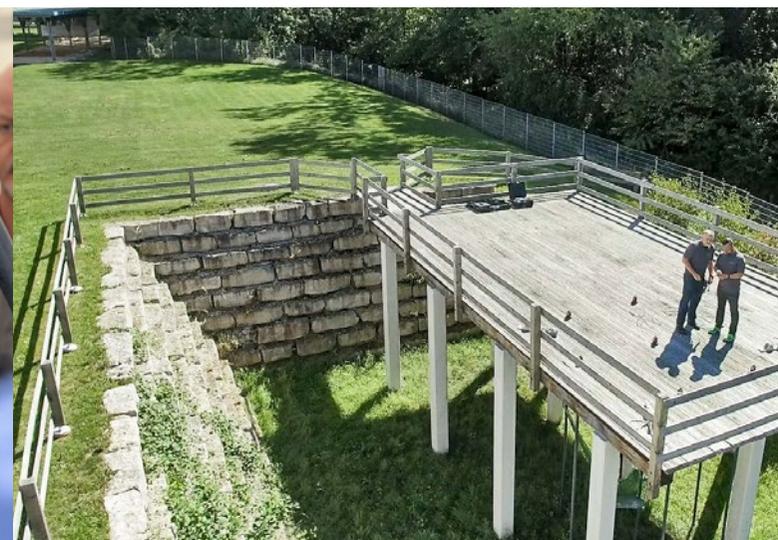
With the EVA4mobile® and the EVA4ALL® VALLON offers powerful software for data acquisition, evaluation and documentation. The firmware of VALLONs fourth generation of metal detectors is subject to continuous further development and can be adapted to satisfy specific customer requirements.

### ✓ 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

With the number and complexity of humanitarian crises on the rise, the challenges involved in demining and ordnance clearance also increase. Explosive ordnance poses a threat to the lives and livelihoods of people living in crisis regions. Despite long-term, considerable effort in the countries with the clearance of contaminated territory, the danger has still not been eliminated in many places. VALLON metal detectors provide valuable assistance.

Learn more under  
[www.vallon.de/en/history](http://www.vallon.de/en/history)



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