



VMX10 with search loop 0.5 x 0.5 m
(example of user-specific configuration)

VMX10

Large Loop Metal Detector

Technical Data

General:
 Power supply: Lithium Polymer cells, rechargeable, additional: battery compartment for 4 x 1.5 V, D-cells

Battery life: approx. 8 hours (at +20 °C) (Lithium Polymer cells)

Detection speed: 0 – 3 m/s, depending on search loop configuration

Operation temperature: -31 °C to +63 °C

Storage temperature: -51 °C to +71 °C

Search programs: 2 soil programs (normal, mineralized soil)

Metal alarm: acoustic via loudspeaker or headphones
visual via LED-Bargraph

Waterproof: IP54, for all typical outdoor conditions

Data transfer: Bluetooth® technology or cable data link to VFC2 (PDA)

Charger: 100-240 V / 50-60 Hz
12V/DC or 24V/DC via car charging cable

Dimensions:
 Search loop: (± 1.5 %) 3 standard configurations:
 approx. 1 x 1 m
 approx. 1 x 2 m
 approx. 2 x 2 m

Detection cable with 8 m cable length
 Other configurations available on request

Control unit: approx. 17 x 11 x 12 cm (L x B x H) (without battery block)

Hard case: 113 x 41 x 36 cm (L x W x H)

Weights:
 Search loop: (without carrying belts)
 1 x 1 m approx. 2.7 kg
 1 x 2 m approx. 3.4 kg
 2 x 2 m approx. 4.8 kg

Control unit: approx. 0.8 kg (without battery block)
 approx. 1.3 kg (including battery block)

Transportation: approx. 22.4 kg

All technical data are subject to change without prior notice.

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- Portable or vehicle-mounted
- Detection also in strongly mineralized soils
- 14 selectable measurement time delays for clutter rejection
- Set includes a 8 m search loop cable and different poles for configurations:
1 x 1 m, 1 x 2 m, 2 x 2 m others upon request
- Functions for metal and object discrimination
- Alphanumeric display
- Optional data recording with software package Vallon EVA2000® Mobile for Vallon Field Computer VFC2



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Large Loop Metal Detecor VMX10

For the detection of unexploded ordnance (UXO) Vallon GmbH offers the large loop detector VMX10, a flexible detection system that can be used both portable and vehicle-mounted.

The VMX10 search loop is equipped with a detection cable that can be attached to a variety of carrying system configurations. This allows the adaptation of the search loop to the different object and search requirements. The search loop diameter and the number of windings depend on the configuration of the carrying system. The detection cable is fixed on a suitable carrying system and connected to the control unit.

The VMX10 can operate in strongly mineralized (magnetic) soils, therefore it is equipped with a special detection mode. The necessary soil compensation is fast, simple and a semi-automatic.

The alarm signal is emitted visually via LED-bargraph and acoustically via loudspeaker or headphones.

To improve clutter rejection, a delay time can be chosen. By filtering out smaller objects, the VMX10 can be adjusted to different detection requirements.

A differential search loop configuration allows detection work in heavily electromagnetically contaminated environments (under power lines, rail tracks, close to transformers...).

Setting into Operation

Preparation

- Remove the single components from the case.
- Assemble the carrying system as per your needs.
- Fix the detection cable on the carrying system.
- Insert battery block into the electronics unit.
- Connect the control unit and detection cable with the connection cable.



VMX10 with search loop 2 x 2 m (example)

Search Loop

The VMX10 search loop VMX10 consists of the carrying system that can be configured individually to different sizes and shapes, and the detection cable. The control unit automatically adjusts to a wide variety of possible search loop configurations. The configurations depicted in this brochures are examples only.

Control Unit

The control unit contains the control elements of the VMX10, the socket for the connection cable as well as a socket for headphones or data output for optional data recording.



Transportation

The UXO detector VMX10 with all accessories is stored in a rugged plastic hard case.



Rechargeable battery block and charger

Data Recording (option)

For optional data recording with the VMX10, Vallon GmbH offers the Vallon EVA2000® Mobile software package for the Vallon Field Computer VFC2 (PDA - Personal Digital Assistant) so that survey data can be recorded, displayed and exported to a PC/laptop.

The data are transferred to the Vallon Field Computer VFC2 via cable or by Bluetooth® technology and are recorded in real time. Optionally, the GPS coordinates can be recorded at the same time, so that accurate georeferencing of the search loop data can be made. Thus, the operator is able to evaluate the quality of the measurements directly on site without having to export the data to other systems.



Data recording with 1 x 1 m carrying system and VFC2 (PDA)

1. Motar:
Ø 9cm, length 30 cm,
weight of the steel approx. 3 kg
depth 60 cm
2. Aircraft bomb:
Ø 30 cm, length 80 cm,
weight of the steel approx. 120 kg
depth 235 cm

*Standard PDA with Vallon Software. Type of PDA is subject to change.

The software package Vallon EVA2000® 2.x is installed on PC, tablet PC or laptop and allows in addition to the functionality of Vallon EVA2000® Mobile the convenient evaluation of the measurements, so that the location of suspicious points can be determined.

