

MAGNETOMETER MAGNEX 120 L-2



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The brand new MAGNEX® 120 L-2 locator is used in geophysical surveys and applied for the detection of magnetic anomalies such as caused by ferromagnetic objects buried underground. The locating of UXO, pipes & pipelines, concealed weapon caches or archeological traces are typical tasks for this anomaly magnetic detector. The limit of the detection depth is determined by the size and position as well as the magnetic signature of the ferrous parts to be detected.

The very light weight, the ergonomics and the well outbalanced design of the MAGNEX® 120 L-2 help to strongly reduce operator fatigue improving the quality of work. The controls such as the sensitivity stepping switch and the compensation adjuster can be operated by the guide hand. The need for parallelization by the users is eliminated due to a new sensor technology.

In general the search device is designed as a differential saturation magnetometer applying two inductors which are sensitive to magnetism. This arrangement suppresses the indication of the natural magnetic field. The sensors (inductors) are placed at a set distance inside the probe and placed in coaxial position. As soon as the probe is carried into magnetic anomaly interference the inductors will start to provide different electric values e.g. an alternating tension which is indicated by an audio signal and a galvanometer reading after processing and amplification.

The MAGNEX® 120 L-2 is a lightweight, handheld, battery operated magnetometer for operation under adverse working conditions. It consists of a compact dismountable unit.

The operation fascia shows the following adjuster and sockets: volume adjuster knob (VOL.), test push button for sensitivity test (TEST.), LED-battery control (BAT.), socket for datalogging / loudspeaker.

The components are delivered in a transit case protected against impacts. By taking the probe from the case and fitting the battery container to the carrying rod the MAGNEX® 120 L-2 is immediately operational.



TECHNICAL DATA

Power supply: 6 D-cell batteries 1,5V or a rechargeable Li-ion battery pack

Operation time : approx. 50 h type (D-cells), approx. 22 h with Li-Ion batt.

Temperature range : approx. - 20°C to +55°C

Sensitivity ranges: Range 1 approx. 3000 nT
 Range 2 approx. 1000 nT
 Range 3 approx. 300 nT
 Range 4 approx. 100 nT
 Range 5 approx. 30 nT
 Range 6 approx. 10 nT

Operation weight: approx. 3200 g with D-cells, approx. 2400 g with rech batt.

Carrier case: approx. 850 x 350 x 150 mm

