

METEX 4.251

Flexible large loop metal detector



Safe detection even in the most difficult of terrains

The METEX 4.251 is an active EMI metal detector with a high sensitivity and depth range. It is ideal for searching for conductive metals on land or in shallow water and can locate small, near-surface objects as well as those at depths up to 3.3 meters. The flexible coil of the METEX 4.251 enables the detection of all types of metals. In addition, it can be disassembled,

which facilitates the transport of the device even in difficult terrain.

The METEX 4.251 is particularly suitable for searching for objects that lie deep in the ground and cannot be detected by conventional mine detectors. The special design and high performance make the METEX 4.251 an indispensable instrument for anyone searching for metal objects.

Benefits

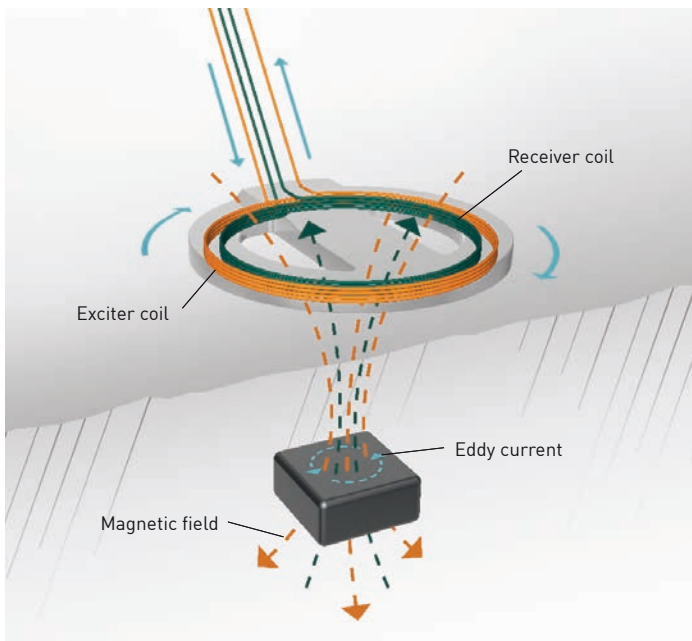
The benefits

- **Reliable detection of all metals on land and in shallow water:** The electromagnetic pulse induction detector is suitable for many applications.
- **Automatic compensation of changing ground conditions and high sensitivity for all object sizes and shapes:** The detector provides maximum search depth without the need to adjust the coil shape.
- **Reliable detection:** The selected coil diameter and track overlap at a track width of 1 m minimize the false alarm rate.
- **High efficiency and search speed:** Simultaneous operation of several coils at a short distance from each other is possible.
- **Ready for use in different terrain conditions:** Also suitable for the investigation of buildings and infrastructures.
- **Ideal for:** Explosive ordnance disposal, police and security, archaeology.

- **Easy to transport and operate:** Allows efficient transport and use of the system.
- **High accuracy and reliability:** For fast and accurate results.
- **Search depths up to 3.3 m:** Depends on size, shape, location of the object, and ground or environmental conditions.
- **Optional equipment:** Additional battery pack, headphones.



Operation principle



Electromagnetic induction method (EMI)

This method is well suited to the detection of metals. Detection performance depends on the transmission and reception parameters, as well as on the type of metal and the local soil conditions since the method relies on conductivity and the magnetic permeability properties of the metal.

A search coil generates magnetic fields that propagate through the soil. When metal parts are struck by this magnetic field, eddy currents form, which in turn causes them to emit a secondary magnetic field. The effects of this field are detected and evaluated by the receiving coil of the metal detector. At the same time, interference signals generated in the ground must be compensated for.

The received signals are evaluated and set off acoustic or optical alerts, thus allowing for pinpointing of the metal part.

Technical Data

METEX 4.251	
Weight	Coil: 3.9 kg Control unit incl. battery pack: 3.15 kg Complete case incl. battery pack: 14.2 kg
Dimensions	Coil: Ø 1360 mm, Height approx. 130 mm Control unit incl. battery pack: 280 x 235 x 103 mm (L x W x H) Case: 650 x 510 x 245 mm (L x W x H) Carrying bag: 630 x 260 x 120 mm (L x W x H)
Temperature range	Storage temperature: - 30 °C to + 70 °C Operation ambient temperature: - 25 °C to + 60 °C
Power supply	Voltage 12 V DC Rechargeable battery pack
Operating time at 25 °C	Up to 10 hours
Protection grade	Coil IP 67 Control unit IP 65
Control unit	12 V DC, rechargeable battery pack, 2.5 Ah
Battery charger	0 – 240 V, 50 – 60 Hz, 250 mA, 25 W

Certifications	
CE certifications	EU Directive 2004/108/EC: Electromagnetic Compatibility Harmonized Standards EU Directive 2011/65/EU: RoHS DIN EN 61326-1:2013 DIN EN 55011:2011, Class A, Group 2 DIN EN 61000-4-3:2011 DIN EN 61000-4-2:2009 DIN EN 61000-6-2:2006

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