

EBEX[®] 2001 C/K Electronic stethoscope

- Versatile search system
- Highly sensitive contact search head
- High frequency non-contact search head
- Unique non contact EBINGER MPS sensor
- Stepless filter/gain controls
- Sturdy construction
- Wide range of accessories



Application

The electronic stethoscope EBEX® 2001 C/K was designed for specific operations in the field of Search, IEDD and EOD, and is mainly used for the detection of weak signals such as from time delay devices and clockwork timers frequently found in EDs or incendiary devices.

Mode of Action

The contact sensor operates as a very sensitive impact sound transducer picking up weak signals from mechanical time delay devices traveling through solid material which are below the human hearing level. The non-contact search head applies a HF method to locate oscillating objects and is not interfered by any airborne sound. The new non-contact MPS sensor is sensitive to HF from a wide range of local oscillators and to magnetic pulses. The amplifier was designed to offer an outstanding signal to noise ratio and a powerful stepless adjustable filter.

System enhancement

The MPS probe close a gap in the range of sensors. It is sensitive to magnetic and pulsating HF signals produced by time delay devices. The detection range resp. detection ability depends on the intensity and distance to the targets.



Contact Search head

The contact search head is used for the detection of impact sound travelling through solid surrounding material such as pipes and packing material.

High Frequency non-contact search head

The non-contact search head applies a high frequency method for a contactless detection of oscillating material as in example in clockwork mechanics. The non-contact search is a useful and complementary means in the system as it penetrates dielectrical material such as wood, packing and plastics, small bricks etc. It is not interfered by airborne sound. In addition it interacts with numerous electronic devices.

Component parts

The EBEX® 2001 C/K consists of the following components:

- ❶ Electronic box with controls for gain and filter
- ❷ Rechargeable battery
- ❸ Charger
- ❹ Coaxial connection cable
- ❺ Contact cap and contact pin
- ❻ Carrying strap for electronic box
- ❼ Special headset
- ❽ Contact sensor Ø 48 mm for the detection of impact sound
- ❾ High frequency non-contact sensor
- ❿ Connection cable for non-contact
- ⓫ Charger for contactless sensor
- ⓬ Transit and storage case
- ⓭ MPS 10 sensor
- ⓮ Connection cable contact sensor

The operation fascia of the electronic amplifier box shows the following:

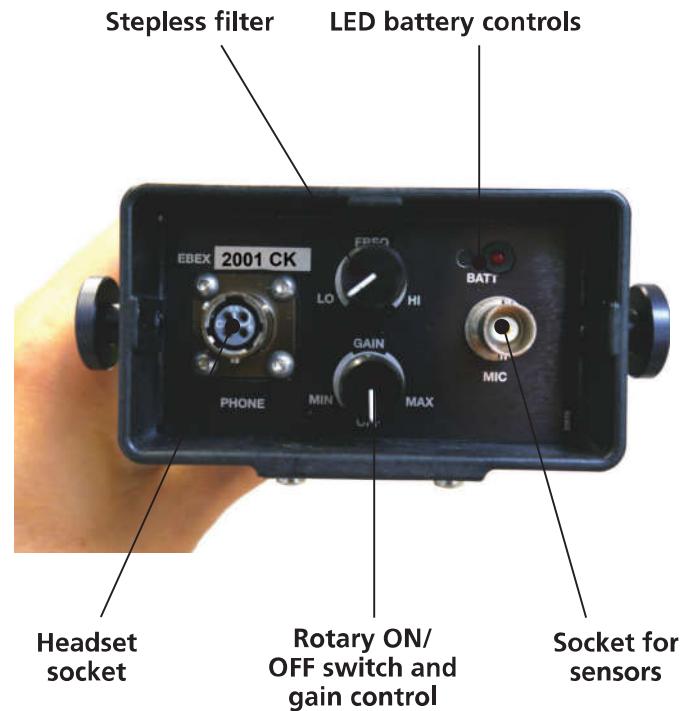
- LED for battery monitoring RED
- Adjuster for amplification with rotary ON/OFF switch
- Stepless filter approx. 2-6 kHz
- Sockets for headset and probes

The contactless probe has its own built-in rechargeable battery. A dual LED red/green indicates the battery voltage. An exchangeable fuse protects the rechargeable battery.

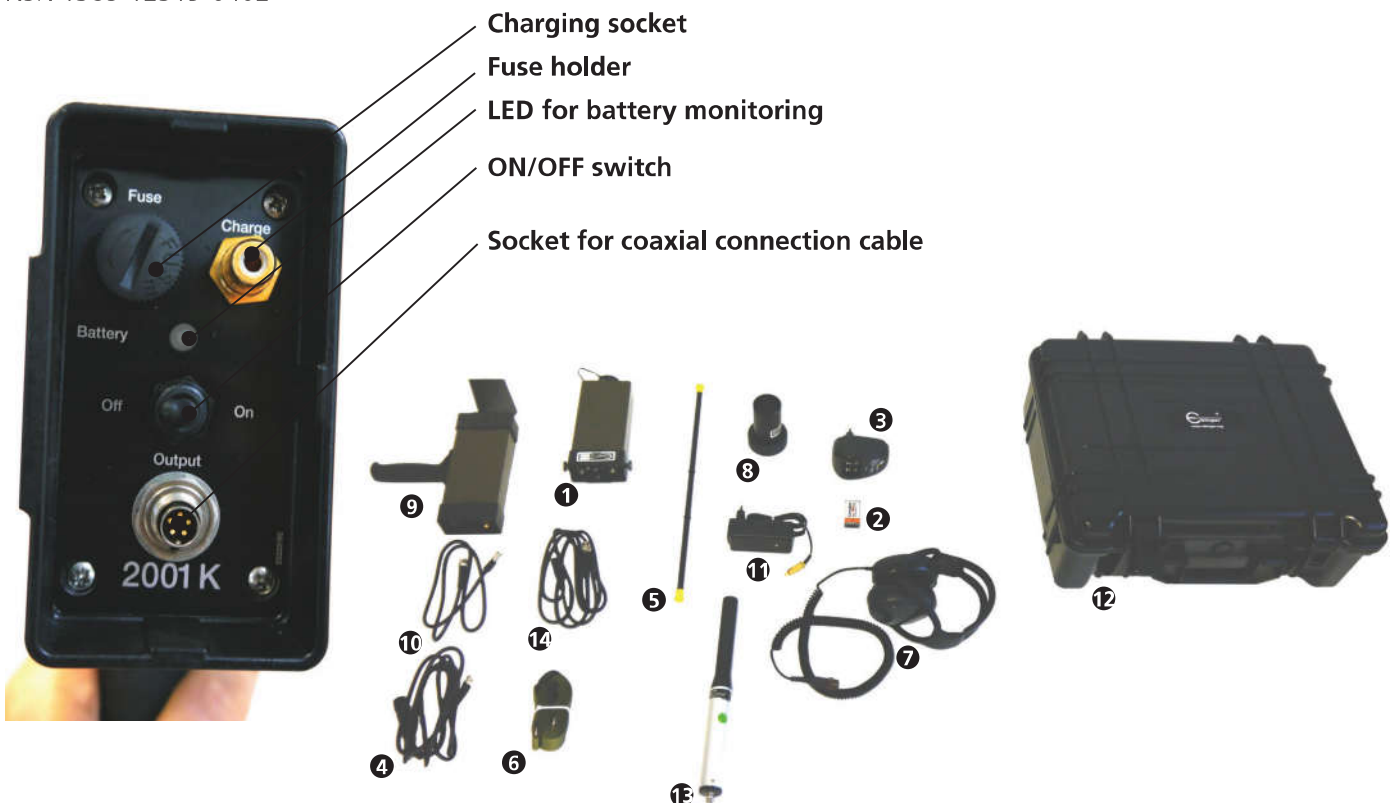
All components are stored in a shockproof transit and storage case. Essential components are shower proof.

Technical data

Amplifier electronics	rechargeable battery 9 V/250 mAh, approx. 9 h E-Block 9 V (6LF22) approx. 18 h
Charging time	approx. 5 h
Contactless probe	rechargeable battery 12V/1000mAh, approx. 6 h
Charging time	approx. 4 h
Frequency filter	approx. 2 - 6 kHz
Maximum amplification	approx. 7×10^5 (117dB)
Temperature range	approx. -15 °C to +55 °C
MPS 10 sensitivity	10-15 cm SWATC „Sir Blue“
Length/diameter	31 cm/2,2 cm
Connector	BNC



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