



# **PIPE PECKER RSP 3**

**Sound Pulse Generator for  
Acoustic Pipe Location**



- **Robust Housing for Field use**
- **long Operation time with rechargeable Batteries**
- **Adjustable Puls Frequency**

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## Acoustic Location of Pipes

The detection and localisation of drinking water pipes may prove to be difficult if the pipes are made of non-conducting material. This applies to materials such as asbestos cement, PE and PVC. Here the acoustic sound pulse technique is employed. A sound pulse generator transmits vibrations along the pipe. Depending on a type of material, diameter and type of soil, the sound pulses propagate along the pipe and can be detected on the surface by means of a geophone. In this manner the route of the pipe can precisely be located. The achievable range depends on many factors such as depth, type of soil and pipe material. This acoustic location method can also be applied to metal pipes. It is extremely helpful for pipes with Tyton sleeves and in any event when, due to electrical interference, location by electric means is impossible. The range achieved on metal pipes is slightly larger than on others.

## Choice of instruments

The following leak detectors are particularly well suited for picking up the structure-borne sound:

- Hydrolux HLE 98
- Hydrolux HLE 400
- Hydrolux HLE 4000

When scanning a meadow or loose soil usage of a plug-in spike according to Fig 1 may substantially improve listening results. Models PAM B-1 or PAM W-1 can easily be attached to the microphone fixture.

## Coupling

The pulse generator is coupled to the pipe to be traced by means of a tight chain. On plastic pipes a resilient disk may be used to prevent wear caused by this mode of excitation. The pulse rate will drop off as soon as the battery runs low, which is also an indication of the residual charge.

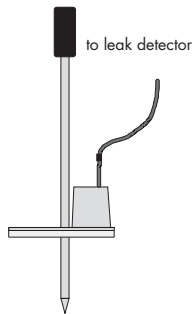
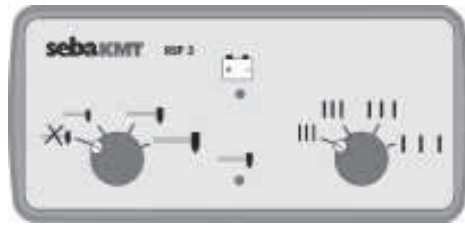


Fig.1 Plug-in spike ESD 75



## Technical Specification:

pulse rate:	3 pulses 2 pulses for a weak battery
Range 1:	40 / min
Range 2:	60 / min
Range 3:	80 / min
Range 4:	120 / min
Intensity:	25 - 50 - 100 %
Power-on	green LED signal
Pulse	red LED signal
Battery check:	flashing green signal + pulse rate change
Rechargeable battery <sup>1</sup>	NiCd 12 V 2.8 Ah
Operating cycle	> 16 h
Charging cycle	< 2 h
Operating temperature:	-10 °C to +50 °C
Chain length:	580 mm
Dimensions IG 3:	190 x 95 x 65 mm
Weight IG 3:	2.6 kg
Dimensions RSP 3:	250 x 115 x 160 mm
Weight RSP 3:	2.1 kg

## Items Supplied:

- Complete System, ready for use, consisting of
- Control unit with battery RSP 3
  - Pulse transmitter with coupler: IG 3
  - Charger 230 C AC 12 V DC LG RSP-3
  - Instruction manual Bed RSP-3

## Optional Extras:

- Instrumentation bag: HLK 98
- Plug-in spike EDB 75

ISO 9001:2000

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