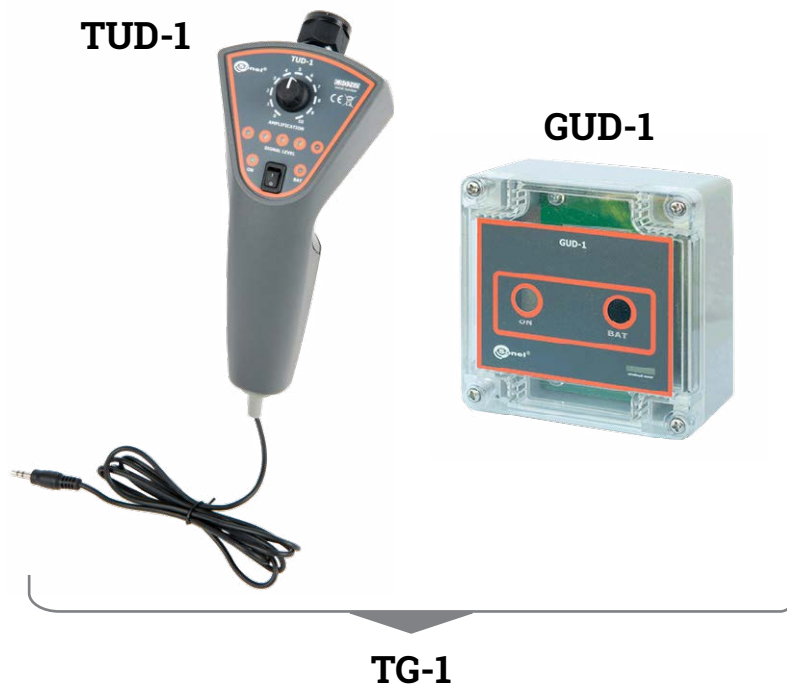


TG-1
index: WMGBTG1

TUD-1
index: WMGBTUD1

GUD-1
index: WMGBGUD1

**Hear the
inaudible**



Features

TUD-1

- Identification of acoustic-wave defects in the range of ultrasounds (40±1) kHz
- Stepless adjustment of gain
- Easy and clear interpretation of results visually on the LED scale and acoustically via the earphones
- Additional probes selected for different methods of analyzing the leakage spot

GUD-1

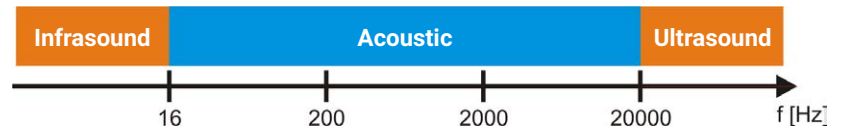
- GUD-1 generator for objects of the same pressure





Description of the product

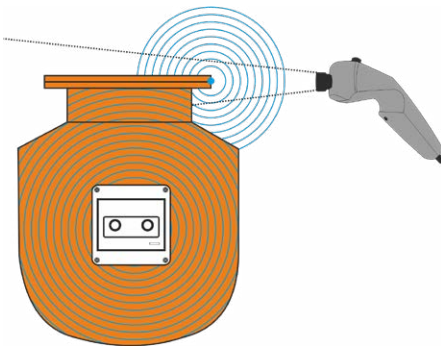
Sonel TUD-1 is a compact, portable device that receives airborne ultrasonic waves and transforms them into acoustic waves in a range that is audible for the human ear.



Additionally, the unit strengthens the waves and presents the signals via the LED scale and via sounds in the earphone set.

Sonel TUD-1 is a professional device that allows:

- sources of electrical discharge to be located on such elements as power grid lines, insulators, generators, transformers;
- the search for leaks in pneumatic and hydraulic systems
- leak checks on systems that supply water and gas, such as pipelines, taps, valves, hydraulic components, pumps, compressors;
- diagnostics of the condition of mechanical components, including bearings, gears, drive shafts, pumps, compressors, generators.



Sonel GUD-1 generator is dedicated to cooperate with TUD-1 detector as an alternative source of ultrasound for emission testing purposes. Generated ultrasound waves have a frequency adjusted to the reception level of the frequency detector.

The device can generate ultrasounds in places, where gas or air leak itself does not have enough pressure to generate a detectable signal. GUD-1 allows to:

- assess unpressurized tanks,
- detect cracks and holes.



TUD-1 | Technical specification

center frequency of the detection range	(40±1) kHz
dynamic range	≥60 dB
power consumption	≤0.35 W
power supply	9 V battery (6LR61 / MN1604)
battery run-time	≥20 h
weight incl. battery	≤0.22 kg 0.5 lbs
dimensions	190 x 60 x 70 mm 7.5" x 2.4" x 2.8"
relative operating humidity	80% at +20°C 68°F
operating temperature	-20...+45°C -4...+113°F
max. operating altitude	2000 m 6562 ft
storage temperature	-20...+60°C -4...+140°F
storage humidity	80% at temp. up to 31°C 88°F linearly decreasing to 50% with temp. increasing to 40°C 104°F

GUD-1 | Technical specification

frequency of the generated ultrasound	(40±1) kHz
sound power	0.0016 W
power consumption	≤0.02 W
power supply	9 V battery (6LR61 / MN1604)
weight with battery installed	≤0.28 kg 0.6 lbs
dimensions	100 x 100 x 80 mm 3.9" x 3.9" x 3.1"
relative humidity	not exceeding 80% at +20°C 68°F
operating temperature range	-20...+45°C -4...+113°F

TG-1 | Standard accessories



TUD-1 ultrasonic detector

WMGBTUD1



GUD-1 ultrasonic generator

WMGBGUD1



2 x 6LR61 9 V battery (MN1604)



Acoustic probe type 1

WASONAKU1



Acoustic probe type 2

WASONAKU2



Acoustic probe type 3

WASONAKU3



Headphones

WAPOZSLU1



Cap protecting the ultrasonic sensor



M6 carrying case

WAFUTM6



Declaration of verification

TUD-1 | Standard accessories



Acoustic probe type 1

WASONAKU1



Acoustic probe type 2

WASONAKU2



Acoustic probe type 3

WASONAKU3



Headphones

WAPOZSLU1



Cap protecting the ultrasonic sensor



M6 carrying case

WAFUTM6



6LR61 9 V battery (MN1604)



Declaration of verification

GUD-1 | Standard accessories



6LR61 9 V battery (MN1604)



Declaration of verification