



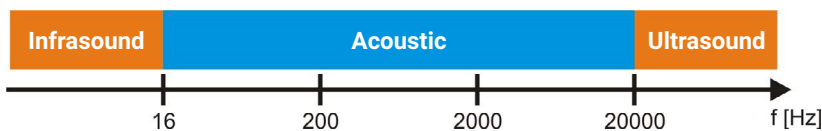
Hear the inaudible

Features

- 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

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.



Technical specification of TUD-1 detector

center frequency of the detection range	(40±1) kHz
dynamic range	≥60 dB
power demand	≤0.35 W
power supply	9V battery (6LR61 / MN1604)
battery run-time	≥20 h
weight incl. battery	≤0.22 kg
dimensions	190 x 60 x 70 mm
relative operating humidity	80% at +20°C
operating temperature	-20...+45°C
max. altitude	2000 m
storage temperature	-20...+60°C
storage humidity	80% at temp. up to 31°C linear drop to 50% with temp. increase to 40°C

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)**



User manual