

Acoustic Well Sounder AWS



Well Sounder

The Acoustic Well Sounder is a precision instrument for determination of the fluid level in the casing of a pumping well.



Description

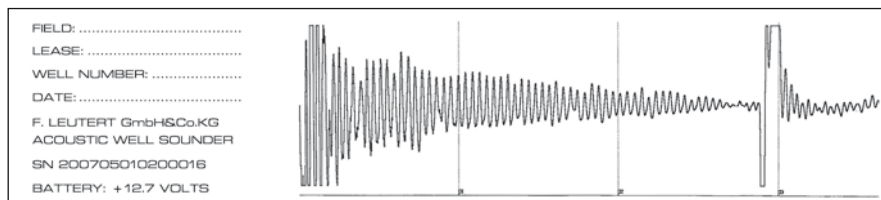
The Leutert Acoustic Well Sounder AWS is a precision instrument for determination of the fluid level in the casing of a pumping well. The Pressure Pulse Gas Gun of the AWS sends a gas pressure pulse down the annulus of the well. The pressure pulse reflects from each collar and the fluid as it travels down the well. The unit stores all reflections, then plots them on paper tape. A simple count of tubing collars finds the distance to the liquid.

The main features of the Leutert AWS system are:

- Gets precision fluid levels with the push of a button
- Filter network removes undesired wellbore noise and accents collar and fluid signals.
- One-quarter-second timing marks on tape ensure accurate calibration.
- Compresses tapes down to one-eighth original length while retaining precision timing marks.
- Large gun chamber may accommodate deep wells.
- Stainless steel construction stands up to sour wells.
- Implosion mode uses well gas for shots on wells with more than 50 psi pressure.
- **CE- and ATEX-certified**

Technical Specifications

Electronics	:	Embedded microcomputer operates on 12 V rechargeable battery
Pressure Pulse Gas Gun	:	pressure rating up to 3,000 psi 206 bar
Working temperature range	:	AWS 0°C – 60°C (with thermoprinter) AWS -20°C – 60°C (without thermoprinter) Gun -20°C – 60°C
Timing mark accuracy	:	0.001 seconds
Weight	:	AWS 15 lbs 6.8 kg; Gun 18.3 lbs 8.3 kg
Acoustic Well Sounder system	:	AWS unit, charger, paper, microphone cable, instruction manual
Pressure Pulse Gas Gun and microphone components	:	Gun, microphone, 2.5 lb. CO ₂ bottle, charge hose, maintenance and wellhead tools, gun repair kit
ATEX-Certification	:	AWS  II (2)G [Ex ib] IIB Gun  II 2G Ex ib IIB T4



Fluid level diagram, paper tape