



TECHNICAL SHEET

OIL FIELD	ULTRASONIC NOISE MODULE	SLIM-2.5"
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Generality and principle of measurement

The noise module detects points of entry of high-pressure gas into an open borehole by listening for an ultrasonic signature.

Sound energy caused by gas entering the borehole is focused by a conical acoustic mirror within the probe onto a microphone. The microphone is tuned to measure the acoustic energy in a frequency band centred at 40kHz, characteristic of entry of high pressure gas through a narrow orifice.

Measurements and applications

Mean Acoustic energy within a fixed passband centred at 40 KHz	Gas detection
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Technical specifications

Length	1.89 m (75")
Diameter	63 mm (2.5")
Weight	27 kg (60lb)
Max. Operating Temperature	125°C
Max. Operating Pressure	1 MPa
Operating condition	Dry open hole only

Sensor Array

Dual detectors in a differential configuration to reduce background noise

High-sensitivity microphones with acoustic focusing

Fully digital telemetry combines with density, neutron and other logging probes

Easy field access for replacement of microphones

