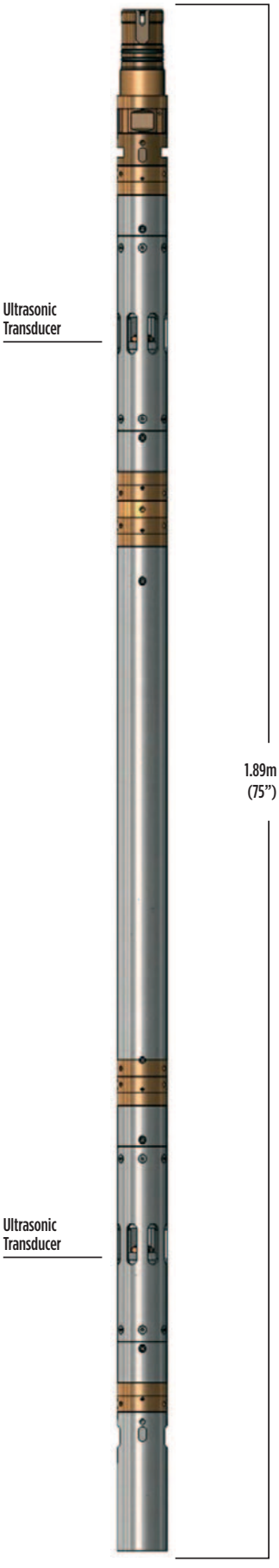
GeoKey® OPEN HOLE LOGGING SYSTEM

ULTRASONIC NOISE DETECTOR (GND)

ROBERTSON GEO
Unlocking Your GeoData



Ultrasonic Noise Detector Module

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

Principle of Measurement:

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.

SPECIFICATION:

Features

- 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

Measurements

Mean acoustic energy within a fixed passband centred at 40kHz

Applications

Gas detection

Operating Conditions

Borehole type:	Dry open hole only

Specifications

Diameter:	63mm (2.5")
Length:	1.89m (75")
Weight:	26.5kg (58.4lb)
Max. temperature:	125°C
Max. pressure:	1MPa

Part Numbers

1003952	Ultrasonic Noise Detector module

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