



**TECHNICAL DATA SHEET**

**NTO**  
Noise Tool

The Noise Tool (NTO) features a precise and accurate sensor for locating the source of undesired fluid movements within a well, including tubing and casing leaks, annular flow, underground blowouts and lost circulation zones. It can be combined with fast response temperature, quartz pressure and spinner tools to provide a comprehensive leak evaluation service.

This highly sensitive piezoelectric hydrophone sensor detects downhole acoustic signals across a wide frequency band, including those generated by fluid movement, particle impact, gas expansion, cavitation and other mechanical effects.

The onboard digital signal processor captures and analyses the frequency spectrum of the recorded signals before storing into memory or transmitting to surface in real-time.

**Applications**

- Tubing leak detection
- Casing leak detection
- Completion item leak detection
- Annular flow evaluation
- Cement / zonal isolation evaluation

**Benefits**

- Comprehensive multi-barrier inspection from a single run in the well
- Deployable on Slickline, Electric line, Coil Tubing or Tractor
- Designed to be run in combination with full suite of well integrity tools and for production logging
- Suitable for all well deviations, including horizontal
- Comprehensive range of log analysis and report services available from READ





Image courtesy of GE oil & gas

## Specifications

<b>Temperature rating</b>	350°F (177°C)
<b>Pressure rating</b>	20,000 psi (138 MPa)
<b>Tool diameter</b>	1 <sup>11</sup> / <sub>16</sub> in (43mm)
<b>Tool length</b>	27.2 in (0.691 m)
<b>Tool weight</b>	9.92 lb (4.75 kg)
<b>Frequency measurement range</b>	100 Hz to 12.7 kHz
<b>Sensor type</b>	Piezoelectric ceramic hydrophone
<b>Logging speed</b>	Recommended: Stationary measurements Maximum: 30 ft/min (10m/min)
<b>Materials</b>	Corrosion resistant throughout

