

# HSR-10

## 1-11/16" High Speed Radial Cement Bond Logging Tool

### Description

The High Speed Radial (HSR) presents the next generation of cement bond tools. It evaluates the cement bond quality and integrity to both casing and formation by providing a 360° cement map with a dedicated 6-segment Radial receiver located 2-ft from the transmitter. It also provides standard cement bond amplitude (CBL) through Near receiver (3-ft), and Variable Density Log (VDL) through Far receiver (5-ft). All sonic data is captured and stored digitally. A built-in advanced telemetry system ensures high speed logging without compromise in Sonic quality. A Gamma Ray, Casing Collar Locator and Temperature sensors are included in the tool.

### Applications

- 360° cement map.
- Evaluation of cement bond quality and integrity.
- Location of free-pipe and cement-top.

### Features

- Rated for High-temperature and high-pressure environments.
- Gamma ray detector, CCL detector, and temperature sensor are built in.
- Compatible with most surface systems.
- Runs on all standard wirelines.
- Combines with two standard pulse tools on the bottom
- All receivers are built in a slotted housing to provide rigidity, strength, and noise isolation.
- Rigid design ideal for horizontal logging
- Electronic design verified for 1 hour operation at 415°F to ensure reliability.
- Easy to service and maintain.
- Proudly designed and manufactured in Canada

### Specifications

Tool Operating Voltage	100 to 150 VDC	Tool Length	4.475 m (14 feet, 8 inches)
Tool Operating Current	80 to 90 MA	Tool Weight	33.0 Kg (73 Lb)
Tool Time Cycle	3 X 50ms = 150ms	Tool Positioning	Must be centralized
Max. Temperature	204°C (400°F)	Max Logging Speed	Up to 30m/min (100 ft/min)
Max. Pressure	172.4 Mpa (25,000 PSI)	Borehole Fluids	Oil - Fresh Water - Brine
Receivers	Near & Far = 1.2" Omni Radial = 6 Segments	Measurements	Near @ 3 ft, Far @ 5 ft Radial @ 2 ft
Transmitter	1.2" Dia. Omni	Recommended Max. Casing ID	177.8 mm (7.00 in)
Tool Diameter - OD	42.8 mm (1-11/16 in)	Recommended Min. Casing ID	50.8 mm (2.0 in)



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