

Negative Pulse Transmitter

The Geolink Negative Pulse Transmitter generates a sequence of small pressure losses in the circulating system with the purpose of transmitting MWD data recorded downhole to surface.

Description

The Transmitter contains a small normally closed valve which is actuated by a solenoid that opens a flow path between the drill string interior and the annulus. A valve open time of 0.5 seconds typically generates a pressure drop of 30 to 50 psi at surface. An integral pressure switch allows control of the tool functions from surface.

Features

- Rugged Beryllium-Copper construction provides high reliability in the most demanding drilling environments.
- Consistent signal and downhole programmable transmission modes.
- Single Transmitter fits subs from 4³/₄in to 9¹/₂in O.D.
- Minimum wear parts - easy and cost effective to maintain.
- Geolink Navigator surface software provides user friendly interface.

Specification

Transmitter Sub O.D.	4.75 to 9.5in, (larger on request) (121 to 241mm) (This tool has a hexagonal section. The span from face to face is actually 2.4in)
Transmitter Sub Length	63.5in (longer on request) (1613mm)
Flow Rates	Up to 1200 US gals/min 76 l/sec
Differential Pressure	Recommended min. 350 psi below tool (2.413 Mpa)
Temperature	Maximum 150°C (302°F)
Hydrostatic Pressure	Maximum 20,000 psi, (137.9 MPa)
Shock	1000g/0.5 millisecond
Vibration	20g RMS 30-300 Hz Random, 30g 50-300 Hz Sine
Mud Sand Content	Less than 0.5% recommended
Lost Circulation Material	Up to 30 lb/bbl Medium Nut Plug - added evenly

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