

Guardian PDD Sensor

Guardian, the Sondex Drilling PDD (Pressure During Drilling) Sensor, enables continuous monitoring of Annular and Drill Pipe pressures when coupled to any of the Sondex Drilling MWD Systems.

Description

The Guardian PDD sensor is housed in a separate drilling sub situated below the Directional/Gamma MWD assembly, or between the MWD assembly and the TRIM or CPR Resistivity Tool. Comprising two sensors which measure annulus and drill pipe pressure independently, the tool is self powered and includes downhole memory as well as the ability to transmit acquired data in real time, when connected to a Sondex Drilling MWD System.

Features

- High accuracy - comprehensive environmental calibration.
- Robust and Reliable.
- UK Built by Sondex Drilling - rapid service and turn around.
- Fully compatible with all Sondex Drilling MWD Systems.
- Slim hole sizes available.

Specification

| Measurement | Range | Accuracy |
|----------------------------|---|----------------------|
| Annular Pressure | 0-15 kpsi (20 kpsi on request) | +/- 0.25% over range |
| | 0-103 Mpa(138 Mpa on request) | |
| Drill Pipe Pressure | 0-15 kpsi (20 kpsi on request) | +/- 0.25% over range |
| | 0-103 Mpa(138 Mpa on request) | |
| Resolution | 0.25 psi / 1,723.7 pascal | |
| Other | | |
| Max. Data Sampling | Every 4 seconds (Either Annular or Drill Pipe Pressure only) | |
| | Every 8 seconds (Both Annular and Drill Pipe Pressures) | |
| Memory Capacity | ~230 to 260 hours (Sampling rate dependent) | |
| Battery Life | ~600 hours (Variable with sensor power level and sampling rate) | |
| Environmental | | |
| Temperature | Operating: 0-150°C Survival: -20 - 165°C | |
| Pressure | 15,000 psi (20,000 on request) | |
| Vibration | 20g RMS 30-300 Hz Random, 30g 50-300 Hz Sine | |
| Shock | 1000g 0.5ms, half sine | |

Pressure During Drilling



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