



Product Sheet - MWD Directional System

System Features

- Industry standard MWD tri-axial magnetometer/accelerometer sensor matched with high stability electronics and rigorous calibration provides best in class accuracy.
- Driller's display on rig floor shows survey and tool face data.
- Inclination and azimuth data available in computed mode for speed of transmission or as raw sensor data for magnetic interference correction applications. Survey data available in dynamic mode while sliding.
- Quality control factors (total magnetic field and dip) transmitted as part of the survey.
- Tool face available from magnetometers at low angles, automatically switching to accelerometer based data as hole angle builds (3 deg. threshold)
- Tool face format can be programmed according to customer requirements, fast where orientation is dynamic or energy saving when a consistent sliding orientation is achieved. Special tool face modes available for combination with logging data to provide efficient data transmission.
- Well position calculation, survey data storage and export provided in surface software. Automatic TVD calculation for logging applications.

The Directional MWD Surface System includes an Intrinsically Safes Rig Floor Display which is continuously updated from the MWD Surface Computer. The Display shows Tool Face, Azimuth and Inclination data and optional engineering data such as drill string shock and vibration (as in the display shown) or Bottom Hole Pressure and Effective Circulating Density (ECD) for under-balanced drilling applications.



Measurement Specification		
Parameter	Range	Accuracy
Azimuth	0-360 Deg	+/- 0.5 Deg
Inclination	0-180 Deg	+/- 0.1 Deg
Tool Face	0-360 Deg	+/- 0.5 Deg
Magnetic Field	0-100 mT	0.075mT
Temperature	0-200 Deg C	+/- 1 Deg C