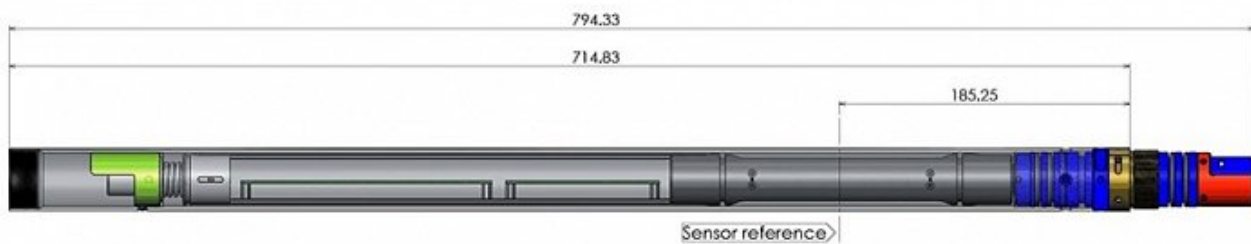


QL40-DEV Data Sheet

The QL40 DEV Borehole Deviation Probe measures the borehole's Azimuth, Tilt and Trajectory using a three axis magnetometer and three accelerometers. These parameters are calculated in real time using the quantities measured by the probe.



Schematic drawing of QL40-DEV. Image courtesy of Mount Sopris Instruments.

The probe measures the magnetic field and acceleration in along the 3 axes of a right handed Cartesian coordinate system.

Deviation parameters are calculated in real time and displayed as continuous logs during the measurement. Deviation data can be processed further using the WellCAD software and deviation module. The WellCAD deviation module includes various 2D and 3D display options for deviation data from classical bull's eye, projection and closure 2D views to 3D cubic and cylindrical displays.

Applications

- Borehole True Vertical Depth
- Borehole trajectory based on direction, inclination and drift measurement
- True bed thickness
- Location of magnetic beds or steel piles near borehole (z-component of magnetometer)

Operating Conditions

W - Water ?

M - Mud ?

D - Dry ?

S - Steel

P - PVC Borehole ?

UC - Uncased ?

*Requires non-magnetic centralizers

Product Dimensions

Physical	Dimensions (L x W x H)	Weight
----------	------------------------	--------

(instrument only)

71cm x 4.2cm x 4.2cm

3.4kg

Technical Specifications

Sensor:	APS 544.
Orientation:	3-Axis Magnetometer, 3-Axis Accelerometer.
Inclination Range:	0-180°.
Inclination Accuracy:	± 0.5°.
Azimuth Range:	0-360°.
Azimuth Accuracy:	± 1.2°.
Max. Temperature:	70°C
Max. Pressure:	200 bar.