



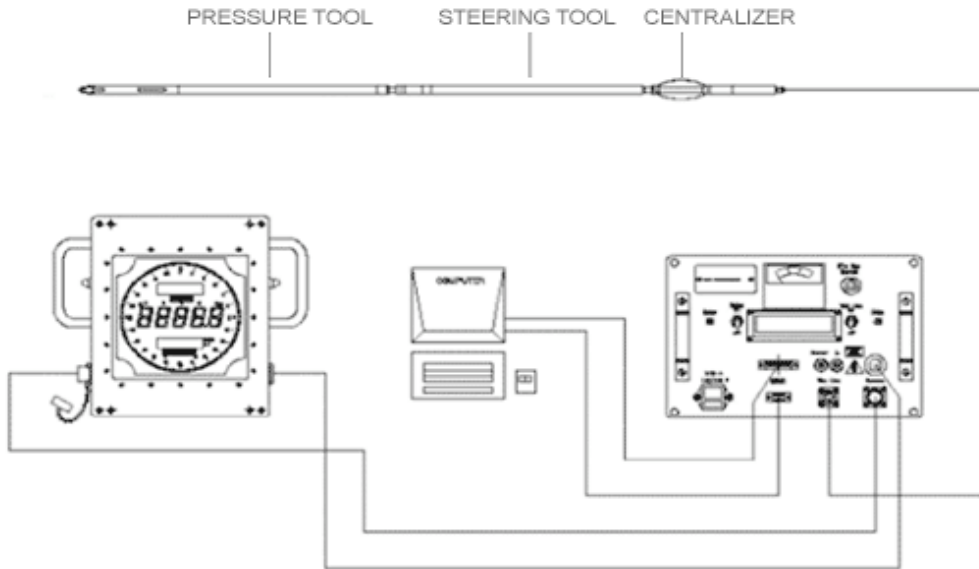
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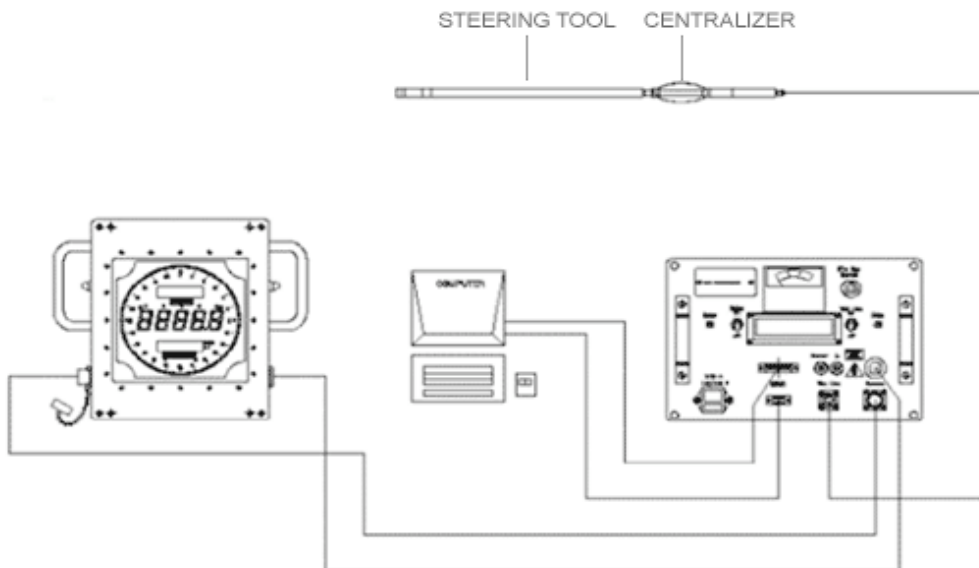
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## Guidance Systems Documentation

### DataTraX System with Pressure and Steering Tools



### DataTraX System with Steering Tools



<b>DataTraX Steering Tool Specifications</b>	
Inclination Range	0° to 180°
Inclination Accuracy	± 0.1°
Azimuth	± 0.75° (Inc > 10°, Dip < 70°)
Tool Face (Gravity)	± 1.0° (Inc > 10°, Dip < 70°)
Operating Temperature	-40° C to +150° C
Survival Temperature	-40° C to +165° C
Calibrated Op Range	0° C to +150° C
Voltage Supply	+18 to 40 volts
Parameters Sampled	Gx Gy Gz Bx By Bz Temp
Shock Qualification	500G 1ms on three axes 5000 impacts per axes
Vibration Qualification	27.5G for 10 minutes on each of the three axes
Instrument Length	635 mm
Instrument Diameter	36.5 mm (to fit 1.5" case)

<b>DataTraX Pressure Tool Specifications</b>	
Pressure Range - Bore (P1)	0 to 2500 psi (0 to 173 Mpa)
Pressure Range - Annulus (P2)	0 to 2500 psi (0 to 173 Mpa)
Measurement Resolution	1 psi
Total Accuracy*	± 1.0 % (Full Scale)
Operating Temperature	-20° C to +125° C
Survival Temperature	-30° C to +165° C
Voltage Supply	+15 to 30 volts
Maximum Current	150 mA
Parameters Sampled	Gx Gy Gz Bx By Bz Temp
Shock Qualification	100G, 2.5 ms 1000 shocks
Vibration Qualification	20Grms, 20 to 500 Hz
Instrument Length	998.5 mm
Instrument Diameter	44.5 mm

\* Total Accuracy (including thermal effects)