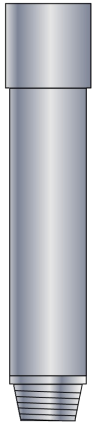


HOLD-DOWN SUB



Uphole connection,  
4 1/2-in XH, BOX

OD: 6 1/2-in  
ID: 3 1/4-in  
Length: 3-ft (typ)  
Weight: 300-lbs (typ)

NON-MAG HANG-OFF SUB



4 1/2-in IF, PIN to BOX

OD: 6 1/2-in  
ID: 3 1/4-in  
Length: 7-ft (typ)  
Weight: 750-lbs (typ)

Downhole connection,  
4 1/2-in XH, PIN

## 6 1/2" TeleDrill™ Specifications

### Sensor Specifications

	Range	Accuracy	Spread
Inclination	0° to 180°	±0.1°	<0.20°
Azimuth	0° to 360°	±0.5°	<1.0°
Tool Face	0° to 360°	±1.0°	
Total g field		±3.0 mg	
Gamma Ray	0 to 300 API	~1.5 Counts/API	10%
Temperature	0 to 150°C (32 to 302°F)	±2°	

### Data Transmission Specifications

Type	Positive Mud Pulse (Programmable Amplitude)
Pulse Rate	Field Programmable, 0.5 to 3 pulses/sec
Data Rate	2 bit/s (Programmable)
Transmitted Data	Field Programmable
Data Update Rates	7s TF @ 1 pulse/s (Field Programmable)

### General Tool Specifications

Pressure Rating	20,000 psi
Operating Temperature	0° to 125°C [32° to 257°F]
Flow Range	100 to 650 gpm
Battery Life	80 to 200 hrs, pulse rate dependant, 1 or 2 batteries
Data Storage	Programmable, 1Hz Data & 4Hz Gamma (typ)
Pressure Drop Equation	$\Delta P = \frac{GPM^{1.86} \times MW(ppg)}{3000}$

### Collar Specifications

OD	ID	Length	Weight (w/ Subs)
6 1/2 in [17.145 cm]	3 1/4 in [8.255 cm]	10 ft [3 m]	1050 lbs (typ)

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