FloSurvey Real-Time Survey Tool





Collar Specifications

The FloSurvey tool runs in a 15-ft (4.6-m) long nonmagnetic drill collar w/float recess 15-15LC

Standard sizes and weights below:

9.5-in. (24.1-cm) OD (6R FloValve)3,000 lb (1,361 kg)
8-in. (20.3-cm) OD (6R FloValve)2,050 lb (930 kg)
6.5-in. (16.5-cm) OD (5R FloValve)1,250 lb (567 kg)
4.75-in. (12-cm) OD (4R FloValve)600 lb (272 kg)

Surface System Specifications

Display Option 1 – (Safe Area) Tablet PC

Operating system	Windows XP or 7
Operating temperature	4 to 140°F (-20 to +60°C)
Storage temperature	40 to 167°F (-40 to +75° C)
With transducer interface and barrier box	

Display Option 2 – (Hazardous Location) HMI

(EU and international IECEx – Zone 1)		
Operating systemWindows XP or 7		
Operating temperature4 to 131°F (-20 to +55°C)		
Storage temperature40 to 167°F (-40 to +75°C)		
With transducer interface and power supply in Exd box for Zone 1		
Pressure transducer (for use with 1502 Weco hammer union)5,000 psi		
Intrinsically safe (US and CA - Class I, Division 1 and Class I, Zone 0)		
(EU and international IECEx - Zone 0)		
Operating temperature40 to 140°F (-40 to +60°C)		

Tool Specifications

Inclination range	0 to 180° (memory), 0 to 20° (real time)
Inclination resolution	0.1°
Inclination accuracy	±0.15° (memory), ± 0.2° (real time)
Azimuth range	0 to 360°
Azimuth resolution	
Azimuth accuracy (inclination >	• 5°)± 2° (memory), ± 3° (real time)
Operation pressure range	250 to 15,000 psi
Power source	3x DD lithium batteries
Battery life	2,000 hours (250 days)
Maximum operating temperatu	re329°F (169°C)
Maximum tool length	9.5 ft (2.9 m) with 6R valve
Maximum tool weight	
(12.1 kg) (6R valve) = 73 lb (33.1 kg) total
Full survey transmission time	As quickly as 60 seconds
	for inclination and azimuth



FloSurvey Real-Time Survey Tool

FloSurvey LCM Guidelines

Tool Type	FloSurvey			
Concentration (lbs/bbl)	<15	15-35	35-50	>50
Fine Walnut				
Medium Walnut				
Coarse Walnut				
Baro Seal				
Baro Fiber				
SteelSeal				
Plug Git				
Plug Git H				
Cottonseed Hulls				
Cedar Fiber				

HIGH RISK
Lost-circulation material (LCM) in this concentration range significantly increases the probability of tool failure and is considered out of specification. Operator assumes all risk.
MEDIUM RISK
CM in this concentration range can increase the probability of tool failure if not properly mixed.
LOW RISK

Recommendations for Use

- Ensure that LCM is thoroughly premixed in the mud pit before going downhole
- Do not introduce LCM as a "slug" near the pump intake
- Be aware that the FloSurvey tool may have trouble delivering a survey right after the introduction of LCM
 - In many cases, surveys will transmit after two-to-three stands
- If the FloSurvey tool stops working after the introduction LCM, running a high-pressure, fresh-water sweep can be effective to clear the valve as well.

