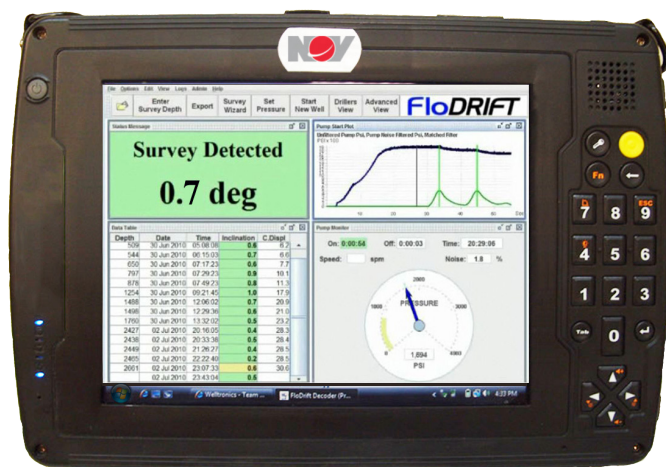


FloSurvey Real-Time Survey Tool



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 system.....Windows XP or 7
- Operating temperature.....-4 to 131°F (-20 to +55°C)
- Storage temperature.....-40 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 temperature.....-40 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.....1°
- 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 temperature.....329°F (169°C)
- Maximum tool length.....9.5 ft (2.9 m) with 6R valve
- Maximum tool weight.....46.4 lb (21 kg) (tool) + 26.6 lb (12.1 kg) (6R valve) = 73 lb (33.1 kg) total
- Full survey transmission time.....As quickly as 60 seconds for inclination and azimuth
- Telemetry type.....Pressure drops (PRES)