Standard FLS

FLOW LOGGING SYSTEM TECHNICAL DATA SHEET

Scientific Drilling's Standard FLS (Flow Logging System) is a high-quality and cost-effective flow profile defining solution.

This compact and modular system offers the following sensors for both memory and real-time data acquisition:

+ Casing collar locator (CCL)
+ Gamma ray
+ Pressure
+ Temperature
+ Spinner flowmeter
+ Fluid capacitance
+ Tuning fork density

For more information on Scientific Drilling's range of cased hole services, contact your Scientific Drilling sales representative or visit: **http://scientificdrilling.com/cased-hole-services**

GENERAL SPECIFICATIONS	
MAXIMUM TEMPERATURE**	325°F (163°C)
MAXIMUM PRESSURE	16,000 psi (110,316 kPa)
MEMORY	Non-volatile, 48 MB
TEMPERATURE SENSOR ACCURACY/RESOLUTION	High-accuracy platinum resistance ±1.8°F (1°C) / 0.02°F (0.01°C)
PRESSURE SENSOR ACCURACY/RESOLUTION	High-accuracy quartz ±3.0 psi / 0.01 psi
FULLBORE SPINNER RESOLUTION, TYPE,	Minimum 0.1 rps with direction 4-Arm / 6-Arm
CONTINUOUS SPINNER RESOLUTION & OD RANGE	Minimum 0.1 rps with direction 1.5 - 3.5 in
GAMMA RAY CRYSTAL DETECTOR	Sodium iodide (NaI) scintillation
CASING COLLAR LOCATOR TYPE & MEASUREMENT FREQUENCY	Magnetic flux 50 samples per second
TUNING FORK DENSITY ACCURACY / RESOLUTION & RANGE	0.03 g/cc / ±0.001 g/cc 0.0 g/cc – 1.2 g/cc
CAPACITANCE RANGE	0 - 100% (Dependent on water hold-up)
CENTRALIZERS	Over-body or In-line
HOUSING DIAMETER	1.38 in (35.0 mm)

*Specifications are subject to change without notice **Max. temperature rating dependent on run duration

APPLICATIONS

+ Multiphase flow profiling
+ Leak Detection
+ Water & gas injector flow profiling
+ High flow rate gas wells
+ Memory and real-time data acquisition

BENEFITS

+ Slickline conveyance simplifies pressure control for safer operations
+ Batteries can be adapted for extended runs (~ 10 days)
+ Tuning fork density provides superior quality density data in high gas flow conditions