

SMART PULSER DRIVER

The SMART Pulser Driver is built to drill and tough to ignore. Adjustable firmware settings, optimized power utilization, and a rugged chassis made to endure the turbulent conditions found in directional drilling environments.

Firmware settings are user configurable to ensure optimal compatibility with any pulser mechanical sections. Minor modifications make a major difference. Maximize every pulse cycle, increase steps for more aggressive action, or reduce steps to back-off and reduce power consumption.

Connect directly to the driver and read the memory using the high-speed CAN Bus interface. Monitor diagnostic information and pulser status updates.

Use the SMART Pulser driver with a SMART DM and they will share detailed information that will alert operators of potential anomalies to check into on the module.

Get the best performance from your MWD, with the latest technology from JAE!



APPLICATIONS

- ◆ Drop-in replacement for motor-driven pulsers.
- ◆ Compatible with mechanical assemblies from major brands.
- ◆ Fine tune pulser performance with adjustable firmware settings that modify how the mechanical section is actuated:
 - ✦ Dynamic Recalibration.
 - ✦ +/- Travel Steps.
 - ✦ Dynamic power optimization.

FEATURES

- ✦ 175°C operating temperature.
- ✦ 7 - 12mA quiescent current draw.
- ✦ 8 MB of memory.

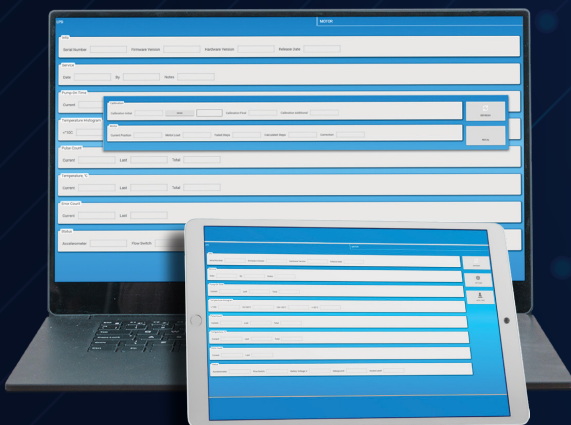
PERFORMANCE PULSE

8 MB of memory is available for storing pulser performance metrics and operating statistics for hundreds of circulating hours.

Use the J-LPD software application to interface with the pulser driver, access and download the logs, perform diagnostics and function tests, with or without a mechanical assembly attached.

Lifetime operating statistics, such as total circulating hours, accumulate and save automatically anytime the module is energized. Select from measured and calculated statistics to be logged periodically or from a particular trigger.

- ✦ Circulating Hour Histogram
- ✦ Pulse Counter Histogram
- ✦ Temperature Histogram
- ✦ Pulse Error Counter Histogram



SPECIFICATIONS

Chassis Material	6061-T-6 Alloy Aluminum
Connectors	Up to 15 conductors
Temperature Rating	-30°C - 175°C (survivable to 180°C)
Shock Rating	500G, 1ms Half-Sine
Vibration Rating	20G RMS, 10 - 500Hz
Flow Detection	Multi-Axis Accelerometer
Operating Voltage	20 - 32 VDC
Motor Voltage	15 VDC Regulated
Quiescent Current	7 - 12 mA

MEASURED METRICS

DRIVER HARDWARE DATA:

- * Unique Serial Number
- * Date Manufactured
- * Hardware version
- * Firmware version
- * Memory Information
- * Service Record Entries

PERIODIC DATA:

- * Battery Bus Voltage
- * Flow Switch Status & Value

LIFETIME OPERATING DATA:

- * Pump-On Time Histogram
- * Total Pulses Histogram
- * Total Error Pulses Histogram
- * Temperature Histogram

DC MOTOR DATA:

- * Current Load @ Max pull
- * Starting Position Value
- * Total Steps for Full Pulse
- * Current Step Value
- * Failed Steps
- * Driver Corrected Steps
- * User Adjusted Steps

CHASSIS STYLE A



CHASSIS STYLE B

