

Agilis™

Universal Pulser Driver

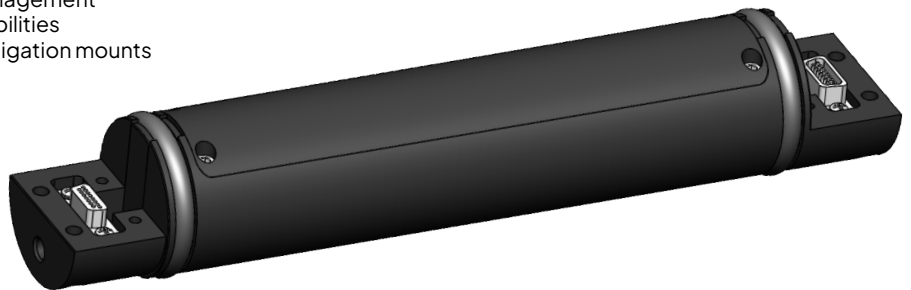
Agilis is a rugged and flexible brushless motor controller optimized for use as a pulser driver for downhole MWD tools. It provides reliable and power efficient control of motors used to drive servo pulsers or other downhole valves. The Agilis driver can be configured extensively to adapt and support motors and pulsers from most manufacturers or customized upon request.

Features:

- Built in over current protection, travel distance learning algorithms, jam detection, and acceleration control
- Three axis flow state measurement
- Sensors for measuring shock, vibration, temperature, voltage, currents and motor energy consumption
- Integration with Rime's Pulser Interface Box – proprietary software for fleet mgmt, R&M, lifecycle management
- Extensive memory with event logging capabilities
- Proprietary shock isolation and damage mitigation mounts
- Available with and without real time clock

Benefits:

- Increased flexibility and reliability in challenging environments
- Highly configurable
- Detailed and extensive data analysis and reporting



Data stored in memory

Serial number and manufacturing data	Flow switch configuration	Axial and lateral vibration
Lifetime statistics	Throat clear configuration	Axial and lateral shock peak values
Job statistics	Pulse energy	Axial and lateral shock event counts
Run statistics	Pulse width	Vibration level histogram
Part level maintenance tracking	Valve open time	Shock event histogram
Temperature	Temperature histogram	Gamma

Specifications

Nominal length	8.125" (206.37 mm)
Makeup length	7.225" (183.51 mm)
o.d.	1.450" (36.83 mm)
Operating voltage	10–40V (20–35V recommended)
Power consumption	~5mA standby, actual consumption dependent on configuration and load
Operating temperature	32° to 347°F (0° to 175°C)
Shock rating	1000g, 0.5ms, ½ sine, 10 times, all three axes
Vibration rating	5–30Hz@1in double amplitude, 30–500Hz 20grms all axes
Operating pulse widths	0.050–2.000 s
Flow switch	Integrated three axis, solid state with high configurability
Memory	8MB non volatile memory with event and statistical data logging