

AGILIS

AGILIS is a rugged, flexible and feature rich 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 or main valves.

AGILIS incorporates a fast and capable microprocessor and provides tight control of motor currents and accelerations. It can also be configured extensively to support motors and pulsers from multiple manufacturers and vendors.

AGILIS has built in travel distance learning algorithms and jam detection. These features allow legacy pulsers to have expanded capability and increases their reliability in challenging environments. AGILIS also has built in Flow Detection based on RIME's AWARE flow sensor platform and allows for configurable and reliable three-axis flow state measurement.

Other sensors and memory logging features are also resident on the AGILIS module. These include Shock, Vibration, Gamma, Temperature and Voltage measurements. In addition, extensive data regarding pulsing itself is also logged, thus providing not just environmental monitoring, but valuable event monitoring. All logged data is stored on board and are time stamped using the built in real time clock for accurate, meaningful and correlatable post run data analysis.

AGILIS is rated to 175C and incorporates our proprietary shock isolation and mitigation mounts to ensure survivability and functionality in high shock and vibration environments. AGILIS is currently compatible with pulsers manufactured by Telemetry, Benchtree and GE/Bluestar. Customized versions are also available as needed and upon request.

AGILIS utilizes RIME's Pulsar Interface Program (PIP) to provide access to product configuration, performance data and event logging and provides a rich set of features allowing detailed and extensive data analysis and reporting capability.

AGILIS lets customers take their legacy products and enhance their performance, intelligence, capability and reliability, all valuable commodities in today's market.



FEATURES AND BENEFITS

- Compatible with Telemetry, GE/Bluestar and Benchtree Pulsers
- Extended Capability, adjustable travel distance and anti-jam behavior
- Highly configurable, current limit and safe travel extents
- Complete logging capability, Gamma, Shock, Vibration, Temperature, Voltage
- Real Time Clock
- Hall Sensor Feedback Drive
- High reliability phase drivers
- 175C Rated
- Built in three axis flow switch
- Exceptional Shock Isolation
- Short, 9.85" Make Up Length
- Extensive data analysis and reporting capability

Specifications	
Nominal Length	10.75in (273mm)
Makeup Length	9.85in (250.2mm)
Housing O.D.	1.88in (47.6mm)
Power Supply	20-30VDC
Power Consumption	~5mA
Shock Limit	1000g, 0.5msec, ½ sine all axes
Vibration Limit	5-30Hz@1in double amplitude, 30-500Hz 20g all axes
Operating Temperature	0° to 175°C (32° to 350°F)
Data Stored In Memory	
Serial Number and Manufacturing Variables	Job Level Performance Tracking
Lifetime Performance Tracking	Pulse Event Logging (time, energy, width etc.)
Flow Switch Configuration Variables	Throat Clearing Configuration Variables
Part Level Maintenance Interval Tracking	Power Cycle (run) level data
Lateral and Axial Vibration Levels	Lateral and Axial Shock Events
Shock Event Histogram	Temperature
Voltage	Gamma

