r i m e

downhole technologies

agilis+™

universal pulser driver with rtc

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 pulsers or other downhole valves. the **agilis+** driver can be configured extensively to adapt and support motors and pulsers from multiple manufacturers and vendors.

agilis+ has built in over current protection, travel distance learning algorithms, jam detection and acceleration control. **agilis+** has built in flow detection based on **rime's aware** flow sensor platform and allows highly configurable and reliable three axis flow state measurement.

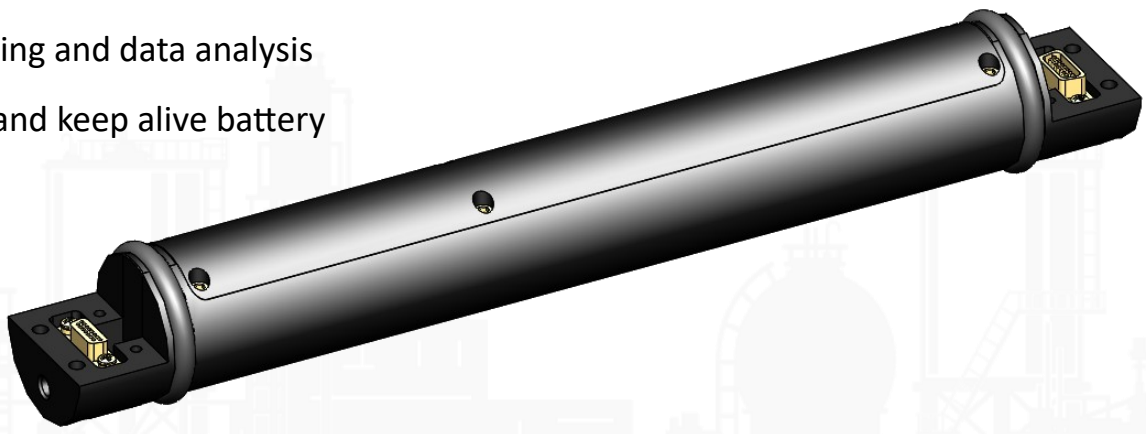
agilis+ also has an array of other sensors and capabilities resident on the module, including sensors for measuring shock, vibration, temperature, voltage, currents and motor energy consumption. In addition, **agilis+** also has extensive event logging capabilities including the logging of pulsing events and other environmental variables. **agilis+** can also log gamma values from an external sensor into memory for data redundancy.

agilis+ is rated to 175° and incorporates our proprietary shock isolation and damage mitigation mounts to ensure survivability and functionality in extremely hostile environments. **agilis+** is compatible with servo pulsers manufactured by XXT, Telemetrix, Benchtree and GE. customized versions are also available as needed and upon request.

agilis+ is tightly integrated with **rime's pulser interface program** through **rime's pulser interface box** which allows access to configuration, performance data and memory logging and provides a rich set of features allowing detailed and extensive data analysis and reporting.

agilis+ is built upon our proven **agilis** offering, except it adds a dedicated real time clock and a keep alive battery to provide time stamps for memory log events.

- compatible with XXT, Telemetrix, Benchtree, GE and others
- highly configurable
- extensive memory logging and data analysis
- built in real time clock and keep alive battery
- 175°C rated
- limited qmix support



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specifications	
nominal length	10.75” (273.05 mm)
makeup length	8.95” (227.33 mm)
o.d.	1.375” (34.93 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
rtc battery life	lesser of 2,000 circulating hours or 2 years

statistics as of 11.1.2019	
units deployed	885+
circulating hours	1,200,000+ hours
pulses sent	1,250,000,000+ pulses

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

variants

agilis+ is also available without a built in real time clock and keep alive battery, see agilis brochure for more details.

agilis+ is also available in a an ultra rugged 200°C version, see agilis-ht brochure for more details.