

agilis-ht is an ultra high temperature rated, rugged 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-ht** driver can be configured extensively to adapt and support motors and pulsers from multiple manufacturers and vendors.

agilis-ht has built in over current protection, travel distance learning algorithms, jam detection and acceleration control. these features allow legacy pulsers and new designs to have expanded capabilities and increases their flexibility and reliability in challenging environments. **agilis-ht** has built in flow detection and allows highly configurable and reliable two axis flow state measurement, with optional three axis flow measurement available.

agilis-ht remains fully functional at temperatures up to 200°C. this is accomplished using power supplies and amplifiers rated to 210°C, a dedicated ultra stable oscillator and a high temperature accelerometer. all components are rigorously tested and qualified, and the **agilis-ht** unit itself is tested and its performance validated over its entire operating temperature range. in addition, every unit can be optionally qualified for vibration levels of up to 25gRMS at 200°C upon request.

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

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

- compatible with XXT, Telemetry, Benchtree, GE and others
- highly configurable
- 200°C rated
- extensively tested and qualified



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 392°F (0° to 200°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 | 4kB of EEPROM for configuration and statistical data logging |

data stored in memory

| | |
|--------------------------------------|---------------------------------|
| serial number and manufacturing data | flow switch configuration |
| lifetime statistics | throat clear configuration |
| job statistics | temperature histogram |
| run statistics | part level maintenance tracking |

variants

agilis is also available in a standard temperature version with or without a real time clock and keep alive battery. see agilis and agilis+ brochures for more details.