

Agilis-HT™

Ultra High Temperature Universal Pulsar Driver

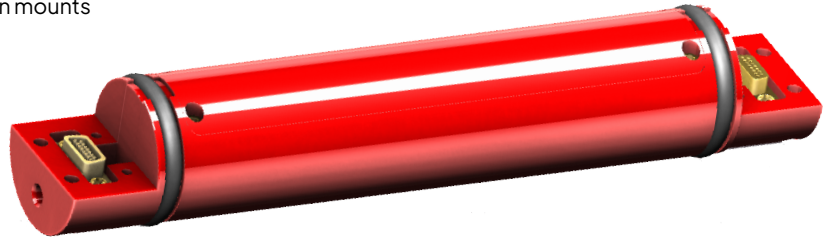
Agilis-HT is an ultra high temperature rated, brushless motor controller optimized for use in the most challenging environments as a pulser driver for downhole MWD tools. It provides reliable, flexible and power efficient control of motors used to drive servo pulsers or other downhole valves. The Agilis-HT driver can be configured extensively to adapt and support motors and pulsers from most manufacturers or customized upon request.

Features:

- Built in over current protection, travel distance learning algorithms, jam detection, and acceleration control
- Two or three axis flow measurement available
- High temp rated power supply, amplifier, and accelerometer
- Dedicated ultra stable oscillator
- Proprietary shock isolation and damage mitigation mounts
- Integration with Rime's Pulser Interface Box

Benefits:

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



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.

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 |

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 |