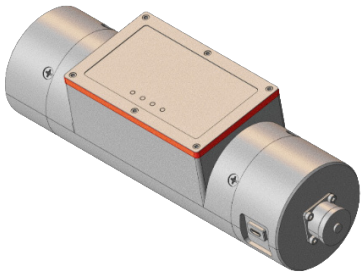
Sensei™

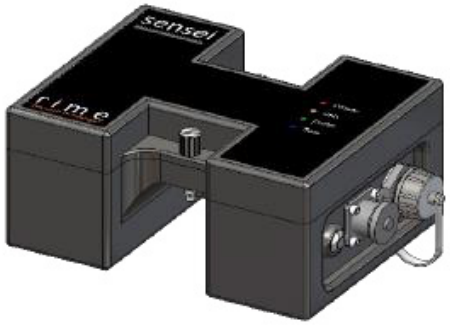
Sensei is a pressure emulator that converts the actuation of the Slick-HD rotary servo valve to a pressure signal that can connect directly to an MWD surface system to allow for complete testing of the tool string. Sensei is offered in two version for compatibility with Slick-HD and Fortis.

Features:

- Converts servo valve actuation into a pressure signal for surface systems
- Non-contact optical sensor measures rotary servo shaft movement
- Generates independent 4–20 mA signal without relying on pulse or flow line inputs
- Integrated flow switch
- Battery-powered
- Connects via standard transducer cable
- Compatible with any MWD system using Rime Slick-HD or Fortis
- Works across all telemetry protocols
- Integration with **Rime Pulser Interface Program**
- Real-time monitoring of pressure waveform, valve actuation timing, and rotation angle
- Configurable pulse amplitude and flow switch settings through software



Sensei for Fortis



Sensei for Slick-HD

Benefits:

- Reduces setup time and need for additional equipment
- Improves testing accuracy with direct measurement of valve motion
- Increases flexibility with protocol-independent compatibility
- Simplifies field operations with portable, battery-powered design
- Provides deeper diagnostics through real-time data monitoring
- Enhances control and customization via integrated software interface

Specifications

Dimensions	6.50" x 4.75" x 3.12" (165 mm x 121 mm x 79 mm)
Output	4–20 mA current loop
Battery life	8–10 hours continuous, unlimited when charger plugged in
Operating temperature	32° to 112°F (0° to 50°C)
Flow switch	Integrated three axis, solid state with high configurability