



REF TEK Wrangler

SEISMIC RECORDER

POWERFUL PERFORMANCE

The all-new REF TEK® Wrangler™ seismic recorder offers powerful performance with the latest seismic measurement technology in a lightweight and easy to use housing. Whether your deployment is a portable or permanent installation, the flexible configuration delivers reliable, robust data from geophysical sensors when and where you need it.

Extreme Data Quality

The Wrangler is REF TEK's latest generation broadband seismic recorder featuring a 32-bit A/D performance boost and boasting a large dynamic range. This enhanced dynamic range enables the Wrangler to record very small vibrations from seismic sensors, providing detailed data for scientific analysis.

Communications

Featuring a Seedlink server, you can set up your system so that it will automatically import Miniseed data straight into your analysis software. The REF TEK Wrangler recorder has a large non-volatile internal memory providing a substantial data buffer for when the connection is not available, or for when you require historical data from the recorder. With smart setup options, the REF TEK Wrangler gives you a choice between automatic data transfer of Seedlink data or the option to transmit ultra low latency data for Earthquake Early Warning applications (EEW). For EEW applications simply set up your Wrangler so that it sends data via REF TEK's RTPD software in near real-time to your EEW software resulting in quick decision making when it's necessary.

Simple Web UI

The Wrangler comes with the latest in network technology including an inbuilt Web user interface (WebUI), which allows you to have fully secured command-and-control of the unit either in the field or when you are back in the office, without requiring additional software. Local connection is easily established using Wrangler's built-in WiFi, enabling you to manage the unit directly with a phone or tablet.

Compact, Rugged Housing

The REF TEK Wrangler seismic recorder is specifically designed for portable field applications. The high-tech plastic case is rugged and light-weight. The unit is both durable and small enough to be easily carried in a backpack for remote installations. The Wrangler has IP68 watertight integrity and is sealed against submersion.

Precise and Accurate Timing

REF TEK's Wrangler seismic recorder uses a high-precision TCXO disciplined by an external Trimble GNSS receiver to maintain time accuracy better than 10 microseconds, imperative for precise earthquake location calculations. Alternately, the Wrangler can be configured to maintain time accuracy by using either an NTP or PTP time server.

Universal Recorder

Available with 3 or 6 input channels, the REF TEK Wrangler is a universal seismic recorder that works with most seismic sensors available today. The Wrangler features new generation sensor control functionality, including six digital sensor control lines and an analog output for sensor calibration signals. The Wrangler includes an additional 32-bit A/D which is dedicated for recording the output calibration signal.

Benefits

- ▶ Greater than 142 dB dynamic range delivers detailed event data, for high-quality scientific analysis
- ▶ Ultra low-latency data suited for Earthquake Early Warning systems
- ▶ Built-in Seedlink server provides robust data transmission
- ▶ 8 GB of dedicated non-volatile memory means a large data transmission ring buffer, just in case a communication outage occurs
- ▶ Environmentally protected removable mass storage, makes swapping USB drives effortless
- ▶ Small and lightweight for easy backpack deployments

Reliable Performance For:

- ▶ Earthquake Early Warning
- ▶ Local and regional broadband seismic networks
- ▶ Induced seismicity monitoring
- ▶ Aftershock and portable deployments
- ▶ Microzonation surveys
- ▶ Site noise surveys



