

Flexibility in Location, Installation, and Communication for Seismic Monitoring on Dams - Etna 2 Accelerograph



CASE STUDY

The Kinometrics Etna 2 is your biggest, little accelerograph solution. It represents the next generation of the ETNA-class accelerographs offering new and cost-effective, web-based monitoring capabilities paired with another Kinometrics established world-standard, the benchmark EpiSensor accelerometer.

At a humble size of 6" x 6" x 3" (152.4mm x 152.4mm x 76.2mm) and a weight of just 3.3 lbs (1.5kg), the Etna 2 does it all. The self-contained recorder and triaxial accelerometer has a power consumption of less than 3 Watts. It uses PTP timing with an accuracy below 1 microsecond. It even has the feature of Power over Ethernet (PoE) if you cannot provide a power source at the location! It is currently being used at a wide variety of dams worldwide, utilizing telemetry links via Ethernet, Fiber Optic, Radios, and Cellular Modems.



Kinometrics KMIDam Real-Time Monitoring solution utilizes the Etna 2 paired with Rockhound software to unleash the full potential, advancing earthquake resilience. It is compatible with Antelope, the leading Environmental Data Acquisition and Monitoring Platform, as well as public domain SEEDLink and Earthworm Protocols. In addition, the Etna 2 is very user-friendly. From installation with only one anchor bolt to the easy-to-use, built-in Web Interface for live waveform viewing, downloading files, changing parameters, and more.

The sophisticated and robust Etna 2 is the perfect solution for your Dam Seismic Monitoring. The sensor has a dynamic range of 155 dB+ and a bandwidth of DC to 200 Hz, making this the ideal solution for all your Seismic Monitoring needs.

Moreover, the Plug-n-Play Etna 2 is designed to achieve the lowest Total Cost of Ownership (TCO). It is a system that you can rely on, essentially "set and forget." There is no need to use resources and send personnel to maintain the system constantly. Even a future firmware upgrade with additional capabilities can be safely done remotely.

With the Etna 2, you are not just buying the instrument, you are getting Kinometrics' 52 years of experience, along with it. In conclusion, you can trust the Etna 2 to record the earthquake; after all, earthquakes cannot be repeated.