

# PERFECTLY PAIRED



**arolla** + **nair<sup>slim</sup>**  
VE series broadband seismometer      GMS series recorder / digitiser

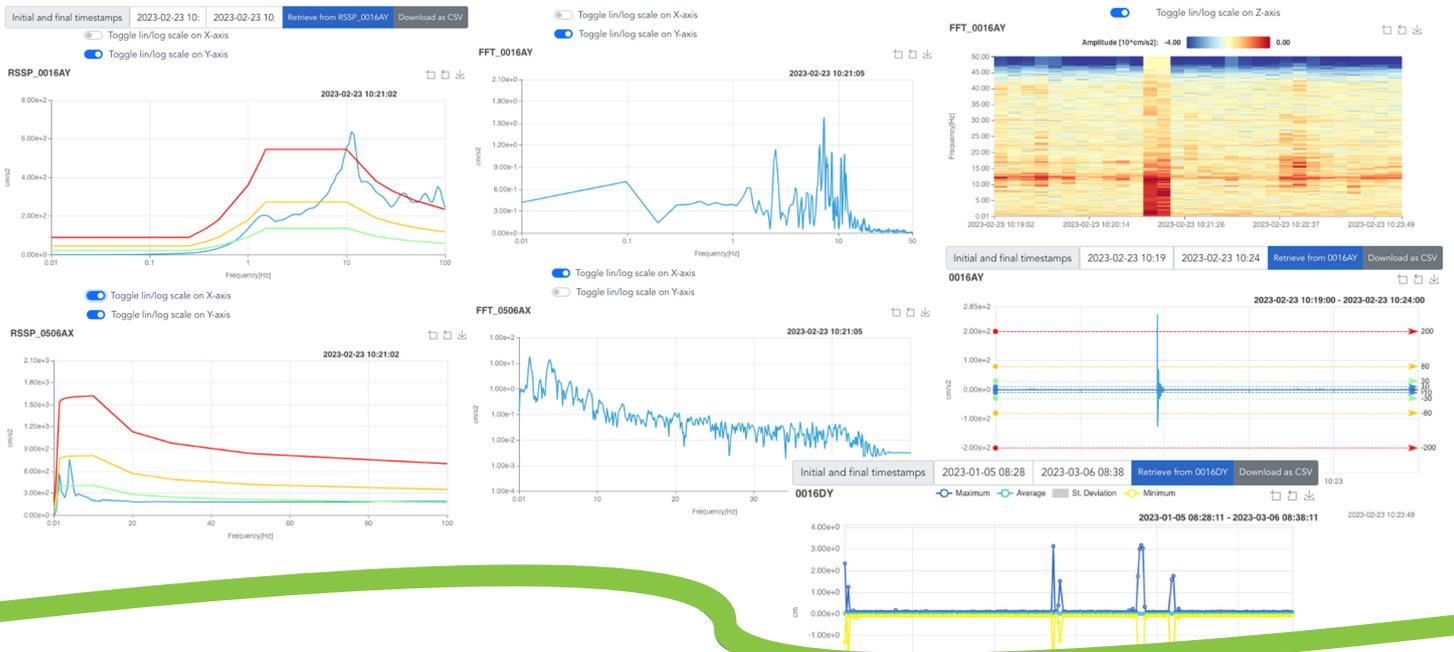
The **arolla** broadband seismometer features a compact and lightweight design, yet it is rugged and versatile, making it an ideal choice for many applications. Weak-motion, broadband seismometers have the highest sensitivity among seismometers over long periods, and are able to pick up even small tremors at great distances.

The culmination of years of experience designing reliable, high-precision, low-noise seismic equipment enabled the creation of **arolla**.

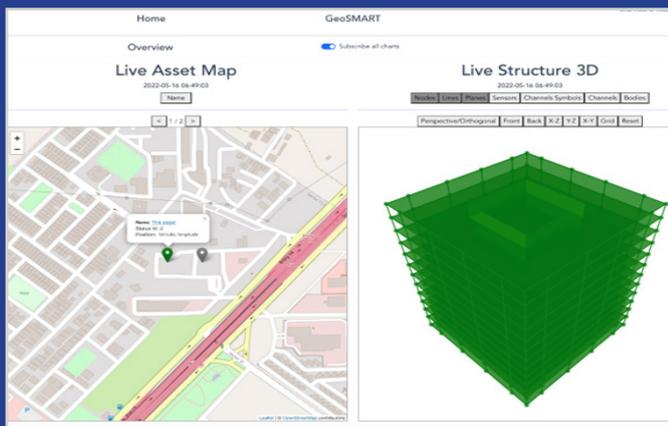
Best paired with **arolla** is **nair<sup>slim</sup>**—GeoSIG’s latest generation seismic recorder that offers highest performance, excellent operational flexibility and enhanced connectivity. GeoSIG’s **nair<sup>slim</sup>** is a self-contained instrument that acquires and processes data in real time. It boasts an impressive 146db (0.01-30Hz), making it suitable for weak motion precision recording. A set comprising **arolla** and **nair<sup>slim</sup>** is fully compatible with existing GeoSIG systems that may already be in place. Also, its simple upgrade path makes **nair<sup>slim</sup>** “future proof.”

A winning combination: **arolla** and **nair<sup>slim</sup>**!





**GeoSIG**  
swiss made to measure



## GeoSMART Offers Peak Performance

GeoSMART is an innovative graphical application that provides **tools** for realtime structural health monitoring for civil engineering structures. GeoSMART, with its “smart” features, can **monitor** and display the status of a structure that is equipped with GeoSIG measuring instruments. GeoSMART is S2HM in a Box; it has been designed to meet fundamental engineering requirements with respect to **structural health** monitoring applications.

## Main Features of GeoSMART

- ◆ Support for any type of sensor such as acceleration, velocity, displacement, tilt, wind, temperature, strain, and many more.
- ◆ User-friendly web-interface for an intuitive experience.
- ◆ 3D representation of any structure with live status.
- ◆ Interactive zoom, rotate, pan, visibility and projection.
- ◆ Multiple structures on live interactive map.
- ◆ Real-time continuous data acquisition and processing.
- ◆ Storage and direct download of all data and graphics.
- ◆ Data export for long-term storage.
- ◆ Sliding window-based continuous frequency analyses: Amplitude, Spectrogram and Response Spectra.
- ◆ Rigid body motions in translations and rotations.
- ◆ Interpolations for non-instrumented areas.
- ◆ Interstory drift ratios and torsion.
- ◆ Exceedance of predefined threshold levels or curves.
- ◆ Plot of archive data and statistical information.
- ◆ Live screen indicators and HTML formatted emails.
- ◆ Individualised notifications to users / user groups.
- ◆ Customisable messages such as action plans.
- ◆ Reports including actual images of plotted graphics.
- ◆ Hardware relays to start or shutdown any process.
- ◆ Advanced user accessible powerful database.
- ◆ API to fetch and externally manipulate the stored data.

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