

Nanometrics Product Announcement

December 4, 2011

Geophysical & Civil Engineering Research • Structural Monitoring • Civil Defense • Early Warning System

Strong Motion Instrumentation



Nanometrics is pleased to announce the addition of two new products to its current line of Strong Motion Instrumentation: the **TitanSMA** and **TitanEA**.

Having established a new level of performance with the force-balance Titan Accelerometer, Nanometrics integrated the same Titan sensor technology with a new sigma-delta digitizer platform. The result is a product line that offers industry-leading class “A” sensor performance at a price comparable to many class “B” products. Users will appreciate the ease of use provided by the web based interface and simplified GUI. Recorded data is readily available via SD and/or USB or streamed online. An events page provides instant access to the recorded events of each instrument on the network or within a structure.



Geophysical and Civil Engineering Research Applications

- High precision observational and structural engineering applications
- Ideal where scientists and engineers require exceptional dynamic range over a wide frequency band
- Integrated digitizer and recorder allows for both stand-alone and networked free-field monitoring deployments

Civil Defense Applications:

The Titan SMA provides all the necessary functionality to facilitate civil defense applications such as early warning systems and shake maps:

- Ultra-low latency configurations as low as .25 seconds
- Local real-time processing and transmission of PGA, PGV, and PGD data
- Ability to recognize P-wave events and broadcast warnings
- Network integration of multiple sensors for event triggers and voting



Structural Monitoring Applications

With no single point of failure, the TitanEA is ideal for networked deployments on or in large civil structures.

The TitanEA facilitates central control room monitoring of a structure, allowing operators to monitor the PGA, PGV, PGD, and spectral amplitude (Sa) of all sensors in the network in real-time.

Each sensor in the network can be accessed independently using any mobile device with internet access, such as a smart phone. Structural Engineers can quickly view instrument status and events anywhere, anytime.

The TitanEA utilizes PTP Timing and common CAT5 Ethernet cabling found in any structure to minimize installation costs and provide complete freedom of instrument placement.



Technical Specifications: www.nanometrics.ca/products/titan

www.Nanometrics.ca