

## MULTIPLE PARAMETERS CAN BE MEASURED

Including, but not limited to; acceleration, displacement (string wire, laser, LVDT), strain, pore pressure, wind, environment (T.P.H.), water depth etc.

# LOW COST STANDARDISED WIRING SOLUTION

The CUSP-Me is deployed with single CAT5 cables between recorder and sensors, providing data communications, timing and power.

### **EASY INSTALLATION**

Sensor data is converted to a digital format at each sensor, and transferred using the Ethernet protocol – in many cases existing Ethernet cabling can be used.

Data timing uses IEEE1588 (PTP) to provide precise synchonisation at each node without GPS.

The central recorder is avaliable in a ruggardised format with an integrated Power-over-Ethernet switch and backup power, or can be supplied for integration into an existing PoE networking environment.

## SIMPLE REMOTE ACCESS TO DATA

A central recorder collects synchronised data from multiple sensors and provides a single data set including reporting on event statistics

Access and control is performed over the Internet using a standard web browser

## **INTEROPERABILITY**

All CSI products use open industry standards and require no special software to view, stream, interpret or control the data gathering process.

## CANTERBURY SEISMIC INSTRUMENTS LTD

149 Rutherford Building University of Canterbury Christchurch 8140, New Zealand P. +64 3 364 3575 sales@csi.net.nz





### **INSTANT REPORTS**

Event information alerts via email or SMS to managers and site engineers for immediate decisions on occupancy, integrity and management.

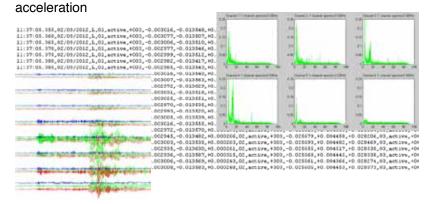
```
CSI SHM instrument 'civic' recorded an event at 03:56:41 27/08/2012 UTC

PA 1.23mg at 'Plant room 0a' (ch 01) (x= 0.58mg y= 0.65mg z= 1.23mg)
PA 5.82mg at 'Comms room 112' (ch 02) (x= 4.55mg y= 3.45mg z= 3.45mg)
PA 1.49mg at 'Comms room 21' (ch 04) (x= 1.11mg y= 1.01mg z= 0.88mg)
PA 4.44mg at 'Comms room 421' (ch 04) (x= 1.11mg y= 1.10mg z= 4.32mg)
PA 0.01mg at 'Comms room 441' (ch 05) (x= 0.00mg y= 0.00mg z= 0.01mg)
PA 1.98mg at 'Comms room 632' (ch 06) (x= 0.37mg y= 1.26mg z= 1.92mg)
PA 0.01mg at 'Comms room 681' (ch 07) (x= 0.00mg y= 0.00mg z= 0.01mg)
The event filename is civic-2012-08-27_03-56-41.xml

The event header file is avaliable at http:// file=civic-2012-08-27_03-56-41.csv.gz
```

### **DETAILED DATA**

The CUSP-Me provides a comprehensive measurement suite, giving building or infrastructure managers a detailed record of all the parameters determining the structures health, more than just



### **PROVEN RESULTS**

The CUSP-Me has been proven in numerous airports, civic structures, bridges and tunnels globally, and has demonstrated significant benefits in risk management.











