

40 years of Research, Design, Production and Installation experience of SEISMIC Instrumentation

### **OUR INSTRUMENTS**

Multidisciplinary Product Range:



#### Very BroadBand Sensors

#### **Q** ALPHA Series sensors are

very low noise broad band sensors with 360 seconds to 150Hz response. Different response options are available. 15Hz to 200 seconds sensor selfnoise below the NLNM. Serial interface allows sensor parameters to be accessed through TAU Digitizer.



#### **Very BroadBand Sensors**

#### **C** ALPHA Series Posthole

sensor systems. Very low noise robust broad band sensor system suitable to be buried under most severe conditions. Stainless steel construction can be installed down to 100 meters depth.



#### **Very BroadBand Sensors**

## **Q** ALPHA Series Borehole sensor systems

The downhole instruments contain three component Alpha broadband and three component Sigma accelerometer sensors and a newly designed single jaw holelock to anchor the instrument into the cased borehole. The sensor tilt and orientation and internal humidity of the sensor is part of detailed SOH parameters.



#### **Strong Motion Accelerometer**

# E SIGMA Analogue sensor has rectilinear dc to 400Hz feedback suspension system. 4 different remotely configurable sensitivity settings and 173dB of dynamic range at 10Hz.

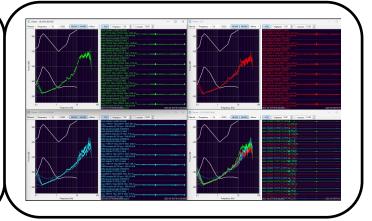


#### **Strong Motion Accelerometer**

#### E Digital SIGMA Sensor

ideally suited for EEWS with LOW latency and with multiple sample rate outputs. 8 Channel 24 bit digitiser exploits 173dB dynamic range of SIGMA sensor.

Ω OMEGA Murray McGowan is the author of a comprehensive software suite to be used with our TAU family of digitizers. Omega software gives network administrators a plethora of functions and options. Amongst others, it allows remote control of the parameters of Gaiacode's digitizers and seismic sensors. Station SOH parameters are presented to the user for quality control of the stations.







#### **Broad Band Sensors**

THETA Analogue broad band sensor with user selectable frequency response and velocity gain. Serial interface provides sensor control and sensor characteristics to be accessed through TAU digitiser. Cost effective network sensor.

#### **Broad Band Sensors**

• Digital THETA broad band sensor 8 channel 24 bit digitiser allows users to record very large dynamic range of the sensor system. Waterproof and robust sensor. Optional MEMS sensor is used for EEWS applications.



#### 24 Bit 8 channel digitiser MK1

TAU high resolution acquisition system. With causal and acausal filters including 4 concurrent sample rates, multiple data format output, low latency data output is suitable for EEWS applications. Internal 24 bit calibration feature is used to calibrate broad band sensors.

#### T 24 Bit 8 channel digitiser MK2

In addition to all the features of MK1, Mk2 TAU has more environmental channels including Infrasound sensor, digital inputs and outputs and two 32Gbyte hot swappable SD cards are available. Waterproof casing.

#### **Broad Band Sensors**

# • THETA Borehole, Posthole slim-line 50mm diameter system

Three component broad band 120 seconds velocity sensor with programmable frequency response. Can operate up to 25 degrees of tilt. Additionally internal MEMS and humidity sensor provide SOH information.

Single arm hole-lock can be integrated with stackable sensors for VSP type applications. Suitable for cased or uncased boreholes. Extremely low noise sensor at high frequency, crosses the NLNM at 8Hz and long period at

Can be installed to a depth of 300 meters.

14 seconds.

PICO Broad band sensor PICO-TP120-VEL is a completely newly designed mid-range portable feedback broad band seismometer housed inside a waterproof enclosure. Very easy to install remotely. Response configurable broad band sensor with 9 different velocity responses. Waterproof posthole with installable and adjustable connector allows the sensor to be installed in any position conveniently.

Comprehensive sensor SOH parameters are available through a serial interface. Can be installed in ±20 degrees tilted postholes. Internal MEMS sensor reports sensor's tilt levels. Dichromate, anodized and stainless steel. Casing options are available.

