DATALOGGER TECHNICAL FEATURES

- ✓ Input channels: up to 30 channels;
- ✓ Configuration: standalone or multi station network;
- ✓ Synchronization: Internal RCT via GPS or remote simultaneous sampling;
- ✓ Activation method: threshold level and/or STA/LTA can be selected for each channel;
- ✓ Recording method: internal/external trigger, post-trigger length can be selected. Recording of the weighted readings (min-max), compliant with DIN 4150 part II, can be selected from 1 to100 s;
- ✓ Data archival: 2 Gb internal memory card per 6 channel group (up to 32 Gb optional);
- ✓ Diagnostics: battery voltage, temperature, sensor test;
- ✓ Energy consumption: 2W per 6 channel group (active);
- ✓ Communication: ethernet TCP/IP via cable/wireless, GPS modem, USB 2.0, UMTSH-SDPA.

- -- - -

24 BIT MODULE

- ✓ Converter: 24 bit single Sigma / Delta for each channel, with DSP every 6 channels, digital and integrated antialiasing up to 30 channels; Channels input level: 5 Vcc, 20 Vcc, differential input;
- ✓ Calibration: integrated;
- ✓ Sampling: selected from 10 Hz to 8 KHz;
- ✓ Bandwidth: Dc-4000 Hz;
- ✓ Dynamic range: >134 dB;
- ✓ Gain filter: 1-2-4-8-16-32-64-128 attenuation of the digital filter's at Nyquist frequency (1/2 sampling rate) by > -120 dB, 0.4 cut frequency of sampling rate.

- -

EXTERNAL INTERFACE

- ✓ GPS antenna: GPS hour synchronization;
- ✓ Power supply: 10 Vdc (optional 120/240 Vac adaptor), automatic switch off when battery <10,2 V, switch on> 11.8 V;
- ✓ Seismic sensor: Seismometers, force balance accelerometers, ICP, piezoelectric MEMS, geophones;
- ✓ Other interfaces: Ethernet TCP/IP via cable, wireless radio, GPS modem.

CE product compliant with European directives

This multichannel 24 bit data acquisition system is designed to meet seismic and accelerometer-based monitoring requirements. With stable configuration, it is ideal for long-term monitoring inside dams and other types of structures.

Its high resolution and flexibility enables an equally performing acquisition of broadband microseismic signals as well as large movements.

This system can join up to 30 channels in multiples of 6, set in a single metal box fastened to a wall or floor.

Communication system with LAN connection.

Remote connection provide by HSDPA / UMTS, GPRS / GSM, FIBRE OPTIC MODEM, WiFi and VHF.

Comes with fibre optic modems for fast data transfer.

Integrated with the data processing VIBROSOFT software, the management software creates performing dynamic monitoring networks.

DATALOGGER DIMENSIONS	
Dimensions	650x400x250 mm, 400x400x250 mm
Weight	15 kg
Box features	metal, IP 65 protection