

MAS 24DY PORTABLE SEISMIC ACQUISITION

MAS 24DY portable seismic acquisition for environmental seismic monitoring of civil, industrial and monumental vibrations.

The integrated high-resolution unit (24 bit and 130 db sampling) can work as a vibration or acceleration acquisition unit or as a portable seismic recorder, according to international standards DIN45669 DIN4150-3-1, UNI9916 and EN61000 61326-1.

MAS 24DY Portable Seismic Acquisition Unit integrates the GPS receiver for the synchronization of the signals of even more control units, 3G/4G modem/router for remote management and data transmission or local LAN connection to existing networks.

The software DYMASOFT, integrated with the data processing software VIBROSOFT or SOLWEB, allows to realize efficient dynamic monitoring systems.

Communication system via LAN; the connection to the system can be made remotely via 3G modem, 4G, FIBER OPTIC, WiFi.

APPLICATIONS

- Civil and industrial vibrations monitoring
- Natural or anthropic seismic monitoring



MAS 24DY PORTABLE SEISMIC ACQUISITION



TECHNICAL CHARACTERISTICS

Input Channels	From 1 to 6 sensor channel
Timing	Sampling and Internal RTC synchronized via GPS simultaneous sampling on all channels
Recording mode	Continuous, internal / external trigger; selectable post-trigger length. Recording of weighted pick values (min-Max), according to DIN. 4150 part II, selectable 1 to 100s
Data Storage	32 Gb internal SD memory; flash disk USB optional
Diagnostics	Battery voltage, temperature, sensors test
Internal battery	LiFePO4 12,8V 10,8Ah; working time: >16h; charging time: 4h
Power consumption	6W for 6 channel group (active)
Communication	Ethernet TCP/IP via cable or optionally by GSM or WIFI
File formats	Solgeo EVE, MiniSEED, other on request
Support Software	Dymasoft; Vibrosoft
Converter	Individual 24-bit Sigma/Delta per each channel, DSP with digital antialiasing filter
Input level	+/- 10V differential Input; +/- 2,6V optional
Sensor calibration	Built-in, positive or negative edge
Sampling	10 Hz - 8 KHz
Bandwidth	DC - 3.200 Hz
Dynamic range	> 130 dB@100Hz
Programmable gain	1-2-4-8-16-32-64-128; Filter anti-aliasing digital filter FIR. frequency attenuation by Nyquist (1/2 sample rate) >-130dB, cut frequency 0,4 of sample rate
GPS	External GPS for time synchronization, rs 422 INTERFACE
Power	10VDC to 15 VDC (120/240 VAC optional)
Standard sensors	Seismometers, Force Balance and MEMS Accelerometers, Geophones, other output voltage sensors
Communication interfaces	Porta USB 2.0 / Ethernet (GSM or WIFI optional)
Case	Rugged plastic case protection IP65
Working temperature	-10 °C - +50 °C
Dimensions & weight	350 x 290 x 150 mm, 5kg

**Contact now your
dedicated consultant:**

**commerciale@solgeo.it
+39 035 4520075**

