

DIGITAL ACQUISITION DYMAS 24 MASTER-V

Dymas 24 Master-V 6-channel digital acquisition system for short and long-term dynamic, seismic and microseismic monitoring of civil, industrial and monumental works, seismic and microseismic networks.

DYMAS24 MASTER-V is a 6-channel acquisition system configurable for event or continuous recordings with all the necessary functionalities to manage single dynamic sensors or complex networks in seismic, microseismic, dynamic monitoring for permanent or temporary installations in dams, buildings or seismic stations. The acquirer can be supplied with the accessories already pre-wired, inside a single wall or base cabinet.

APPLICATION

Short and long term civil and industrial monitoring

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TECHNICAL CHARACTERISTICS

Input channel From 1 to 6 sensor channel

Configuration Standalone or multi-station network

Timing Sampling and Internal RTC synchronized via GPS or

remote control - all channels simultaneous sampling

Triggering mode Threshold level and/or STA/LTA, HP filter, selectable

for each channel

 $\hbox{Recording mode} \qquad \qquad \hbox{Internal/external or continuous recording with SeedLink}$

Protocol. Software Selectable pre/post-trigger length.

Recording of pick values (min-Max), according to DIN

4150 part II, internal selectable from 10 to 100s

Data storage 32 GB internal SD for 6 channel group (till to 64GB

optional) or 512 GB with SSD

Diagnostics Battery voltage, temperature, sensors test

Power consumption 5W

Communication Ethernet TCP/IP - USB2.0 - RS232 (optional)

File formats Solgeo EVE, MiniSEED, other on request

Support software Seiscomp3, Antelope, Earthworm and similar

24 BIT MODULE

Converter Individual 24-bit Sigma/Delta per each channel, DSP

each 6 channels, Integrated digital antialiasing filter

Input level 5Vpp, 20Vpp, differential Input
Sensor calibration Built-in, positive or negative edge

Sampling Adjustable from 10Hz - 1 kHz; 8kHz in event mode

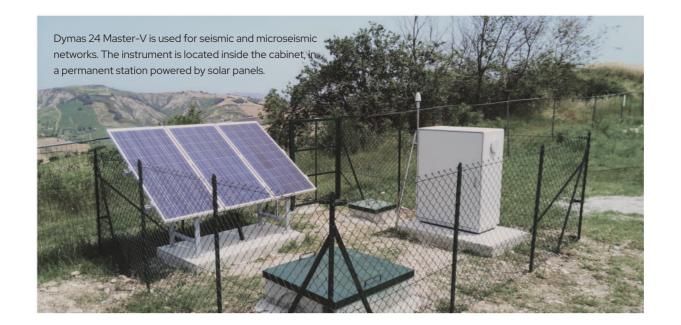
Bandwidth DC - 400 Hz; DC - 3200 Hz in event mode

Dynamic in range 130 dB@100Hz

Programmable gain 1-2-4-8-16-32-64-128

Filter Anti Aliasing Digital Filter FIR

Output Data Format 32 bit signed in user selectable format



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EXTERNAL INTERFACES

GPS antenna GPS time synchronization, RS-422 interface

Power 9VDC to18 VDC (adapter 120/240 V AC optional),

automatic turn OFF when battery <10,2 V, turn ON >11,8V

Seismic sensors Seismometers, Accelerometers Force Balance, ICP,

piezoeletrics, MEMS, Geophones.

Other Sensors (Optional) Extensometer, Termocouples, Hydrophones,

Piezometers

Other Interfaces USB 2.0 / LAN / RS-232 / Modem

ADSL-FO-GSM-GPR-3G / WiFi

PHYSICAL CHARACTERISTICS

Container features Metallic cabinet default protection IP65, higher with

additional cabinet

Working temperature $-20 \,^{\circ}\text{C} - +70 \,^{\circ}\text{C}$ Dimensions (LxWxH) $300 \times 210 \times 70 \,\text{mm}$

Weight 2,1 Kg

Umidity 0-100% non-condensed

Contact now your dedicated consultant:

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