

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



DIGITAL ACQUISITION DYMAS 24 MASTER-V

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
Recording mode	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

Dymas 24 Master-V is used for seismic and microseismic networks. The instrument is located inside the cabinet, in a permanent station powered by solar panels.



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.



DIGITAL ACQUISITION DYMAS 24 MASTER-V

EXTERNAL INTERFACES

GPS antenna	GPS time synchronization, RS-422 interface
Power	9VDC to 18 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, piezoelectrics, 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 °C - +70 °C
Dimensions (LxWxH)	300 x 210 x 70 mm
Weight	2,1 Kg
Umidity	0-100% non-condensed

**Contact now your
dedicated consultant:**

**commerciale@solgeo.it
+39 035 4523705**