

# DYMAS 32

## DIGITAL ACQUISITION UNIT

Dymas 32 is the new 6 channel low power and high resolution digital acquisition system for short and long-term dynamic, seismic and microseismic monitoring of civil, industrial and monumental works, seismic and microseismic networks.

DYMAS 32 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, micro-seismic, 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.

### APPLICATIONS

- Short and long term civil and industrial monitoring



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## TECHNICAL CHARACTERISTICS

Input Channels	6 channels
Timing	Internal 0,5ppm drift free run RTC (real time clock) Sampling and Internal RTC synchronized via GPS/ GNSS, simultaneous sampling on all channels
Triggering Mode	Threshold level and/or STA/LTA, HP filter, selectable for each channel
Recording Mode	Continuous recording with SeedLink Protocol. Software Selectable pre/post- length for triggered event recording. Recording of pick values (min-Max), selectable from 10 to 100s
Data Storage	32 GB internal SD for 6 channel group (till to 128GB optional) 512 GB with SSD connected to external USB port
Diagnostics	External power supply voltage, temperature, sensors test
Power supply	12V nominal, operating voltage: 10 to 15,5VDC 9 to 29 VDC (optional on request) (adapter 120/240 V AC optional)
Power Consumption	2,2W typ
Communication	Ethernet TCP/IP
File formats	Solgeo EVE, MiniSEED, Ascii, CSV
Support software	applications that support the seedlink protocol (Seiscomp3, Antelope, Earthworm and similar)

## 32 BIT MODULE

Converter	Individual 32-bit Oversampling ADC per each channel, with Integrated digital antialiasing filter
Input Level	20Vpp, +/-10V differential Input
Resolution	32 bit, 4,6nV LSB @ 20Vpp gain 1
Sampling rate	10, 25, 50, 100, 200, 250, 500, 1000sps
Bandwidth	DC - 125Hz
Dynamic Range	138dB @100sps full Scale RMS sine wave to RMS shorted input noise 141 dB @100 sps full-scale peak to RMS shorted-input noise
Programmable Gain	1-2-4-8
Filter Anti Aliasing	Digital FIR Filter
Sensor Test	Built-in, positive or negative edge



Device management can be done by SWC, an easy-to-use web-based graphic user interface, supporting industry-standard browsers and compatible with hand held device.

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### OPTIONAL

GNSS receiver	Optional internal 32 channels GNSS receiver, active external antenna with SMA connector
External GPS	External GPS RS-422 interface for Dymas 24 system backwards compatibility
PoE power supply	Power supply from PoE injector

### PHYSICAL CHARACTERISTICS

Enclosure	Aluminium cabinet
Operating Temperature	-20 °C - +70 °C
Umidity	0-100% non-condensed
Dimensions (LxWxH)	187x180x55mm
Weight	1,5 Kg





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