



Mas24-DY

The high resolution integrated unit (24bit sampling and > 135 db) up to 12channels, can operate as a strong motion vibration acquisition unit or micro seismic recorder, according with international standards DIN45669 DIN4150-3-1 and UNI9916.

Suitable for civil and industrial vibrations monitoring or for natural or anthropic seismic monitoring.

Internal GPS receiver for synchronization of all acquisition units without any connection.

Software packages for data setting, processing and visualization.

Signals stored directly on PC. Remote downloading is provided by GSM-GPRS modem, UMTS 3G, WiFi orEthernet network.

Signal recording in case of event plus

TECHNICAL FEATURES

| CVCTENA | |
|--------------------------|---|
| SYSTEM | |
| Input Channels | From 1 to 6 sensor channel (12 optionally) |
| 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 fiter, selectable for eachchanne |
| Recording Mode | Internal/external trigger, continuous, selectable post- trigger length Recording of weighted pick values (min-Max), according to DIN 4150 part II, selectable 1 to 100s |
| Data Storage | 8 Gb standard till to , 64 GB optional |
| Diagnostics | Battery voltage, temperature, sensors test |
| Power Consumption | 2W for 6 channel group (active) |
| Communication | Ethernet TCP/IP via cable/wireless, modem GPS, USB2.0, UMTSHSDPA |
| File formats | Solgeo EVE, MiniSEED, other on request |
| Support Software | Dymasoft & Vibrosoft |
| 24 BIT MODULE | |
| Converter | Individual 24-bit Sigma/Delta per each channel, with DSP each 6 |
| | channels, integrated digital antialiasing fiter |
| Input Level | Up to 48 Ch. |
| | 5Vpp, 20Vpp, differential Input |
| Sensor Calibration | Built-in, positive or negative edg |
| Sampling | 10 Hz - 10 KHz |
| Bandwidth | DC – 4,000 Hz |
| Dynamic Range | >135 dB@100Hz |
| Programmable Gain | 1-2-4-8-16-32-64-128 |
| Filter Anti Aliasing | 1-2-4-8-16-32-64-128 Digital Filter FIR. Frequency attenuation by Nyquist (1/2 sample rate) >–120dB, cut frequency 0,4 of sample rate |
| Output Data Format | 32 bit signed in user selectable format |
| 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 |
| Working Temperature | 20 °C - +70 °C |
| Dimensions (LxWxH) | 300 x 210 x 70 mm |
| Weight | 2,1 Кg |
| Umidity | 0-100% non condensed |
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