



The SL07 seismograph is a high performance instrument capable to record the seismic signal in solid state memory specifically SD/MMC flash cards.

The recording scheme (GSE2.0) and data compression (CM6) guarantees the direct compatibility of the data with major analysis software.

The instrument, featured with extreme ease of use, low power consumption and robustness has been developed with the cooperation with seismologists especially from University of Bergen (Norway).

## Simplicity

The SL07 is dedicated to earthquake monitor and recording; it is compact, reliable and easy to use; in few minutes you can set it up and it is ready to record seismic events.

## Flexibility

With input up to 9 channels, among them 3 for dynamic sensors (electrodinamic of any kind and FBA of the major manufacturer) and up to 6 static signal channels.

## Connectivity

The unit is managed via console port (RS232) this guarantee the operativity with almost all kind of data carriers like Modem PSTN/GSM/GPRS/SAT or LAN devices.

## Energy

Very low power requirements allow the SL07 to be used in remote installations with lead-acid accumulator and solar of small size.

Upon request it can be equipped with a power plug that automatically cycles to decrease power consumption of communication devices and increase the connectivity reliability resetting the radio modem periodically.

## Synchronization

As all our instruments the SL07 comes with a GPS receiver for reliable synchronization with the UTC time.

## Modularity

In our projects we always use a modular approach in the design; this make easier upgrades, repair and transportation of the devices, safeguarding the environment and your money.

We guarantee lifetime free firmware and software upgrades.

## Professionality

The development of our instrument is constantly under progress with cooperation of experts of geophysical and seismological field. Among our valuable clients we can count private and public institutions in every continent for example: NOR SAR (Norway), UNAM (Mexico), Geological Survey of Namibia (Namibia) and instrument operative in: Chile, Argentina, Sud-Africa, Iran, Jordan, Denmark, Tibet, Spain, Sudan, Nicaragua, Panamá, Venezuela and many others.

## Technical features

Power supply:	10-16Vdc
Power consumption:	1.5W
Real Time Clock:	+/-10ppm (-20/+50°C)
RTC Synchronization:	by PPS modulate signal via GPS
Precision to UTC time:	<50µs
GPS Antenna:	BNC terminated cable of 10 meters
Casing:	Molded alluminum IP55 grade protection
Operating temperature:	-30/+60°C
Data interfaced:	RS232 (Ethernet, optional)
Dimensions:	160x190x80 mm (without sensori) 220x200x105 mm (with sensori)
Weight:	without sensors: 1500g with 4.5Hz sensors: 2500g with 2Hz sensors: 3800g
CPU:	AVR RISC processor @ 11.592MHz
Mass memory:	removable SD/MMC flash card up to 2Gbytes
File System:	FAT16
Data:	dynamic or static type organization
Data format:	native GSE2.0 CM6 compressed data
Recording modes:	continue, events, combined as events and continuous with references.
Triggering:	Amplitude, STA/LTA or manual
Pre-event memory:	from 1 to 320 seconds*
Post-event memory:	from 1 to 3000 seconds
SOH check:	condensed humidity, battery, temperature, system log
Certifications:	CE (EN55022, EN55011)

## Registrazione segnali dinamici

Channels:	3
A/D Converter:	24 bit ( $\Sigma\Delta$ )
Dynamic range:	124dB @ 100SPS
Sampling:	simultaneous on all three channels
Input impedance:	300 kOhm
Sensitivity:	2V p-p (119nV/count) (4V p-p con jumpers interni)
Input compatibility:	electrodinamic and active sensors

## Static signal recording (optional)

Max number of channel:	6
A/D converter:	10 bit (SAR)
Sampling period:	da 1 a 86400 secondi
Sensitivity:	0-5V (4.8mV/count)

\* depending on sampling rate