



The SL06 seismograph is an high performances instrument capable to record continously the seismic signal in a USB memory.

Use of Linux operating system guarantees the flexibility of the system open to accept virtually all kind of recording software like SEISLOG or SEISCOMP.

The instrument highlights are low power consumption, connectivity and flexibility.

It comes with preloaded Debian embedded Linux distribution and Seislog for Embedded-Linux

Simplicity

The SL06 seismograph is designed to detect and record earthquakes. Compact, reliable and flexible in use thanks to the open source Linux operating system.

Flexibility

Three analogue channels supporting a wide range of sampling rates. Linux o.s. with several communication protocols preloaded like: TCP/UPD/Apache WebServer/FTP/SSH/Telnet.

Connectivity

Unit is managed by a console port useable by LAN or by RS232. This allow the user to be operative with a wide range of data carriers like PSTN/GSM/GPRS/SAT modems or LAN devices.

Energy

Power consumption of SL06 are very low allowing the unit to be used in remote installations and powered with small accumulators and/or solar panels.

Synchronization

As all our instruments the SL06 is equipped with a GPS receiver with continous synchronization with the UTC time.

Modularity

In our designs we always use a modular approach that make easier upgrades, repairs, and transportations. This extend also the value of your investment on the instrument. We make available for free all the future software releases and firmware upgrades.

Professionality

Development of our instruments is costantly pursued with the cooperation of experts in geophysics and seismology. Among our valuable clients we count public and private institutions worldwide, for example: NORSAR (Norway), UNAM (Mexico), Geological Survey of Namibia (Namibia) with instrument operating in: Chile, Argentina, South-Africa, Iran, Jordan, Denmark, Tibet, Spain, Sudan, Nicaragua, Panamá, Venezuela and many others.

Technical features

Power supply:	10-16Vdc
Power consumption:	<2.5W
Real Time Clock:	+/-10ppm (-20/+50°C)
RTC sync:	via PPS modulated by the GPS receiver
Precision vs UTC time:	<50µs
GPS Antenna:	BNC terminated antenna with 10 meters of cable
Case:	Molded aluminum
Protection grade:	Standard IP54 (IP67 upon request)
Operating temperature:	-20/+50°C
Data interfaces:	GPS NMEA RS232 output CPU Console port RS232 CPU LAN Console port Ethernet 10-100
Dimensions:	160x190x80 mm (without sensors) 220x200x105 mm (with sensors)
Weight:	without sensors: 1700g with 4.5Hz geophones: 2700g
CPU:	ARM9 – 200 Mhz, AVR 11Mhz, AVR 3.8Mhz
Mass memory:	USB stick (instrument supplied with a 2Gbytes unit)
File System:	EXT2, JFFS or YAFFS (for the o.s.)
Datas:	Depending on recording software
Recording modes:	Classic triggering algorithm or continous recording
Certifications:	CE (EN55022, EN55011)

A/D Converter

Channels:	3
A/D Type:	24 bit ($\Sigma\Delta$)
Dynamic Range:	124dB @ 100SPS
Sampling:	simultaneous on all channels
Input impedance:	300 kOhm
Sensitivity:	2V p-p (119nV/count) (4V p-p jumper selectable)
Input compatibility:	all electrodynamic sensors and many active sensors
Sampling rates:	Standard 10,20,50,100,200 Hz (upon request also 300,400,480,600 Hz)
External sens. connector:	MIL-C 10 poles with service power supply*



* From 2010 our connector standard matches the popular Lennartz™ sensor pinout; sensors, cables and digitizers are now directly compatible with Lennartz™ equipments.