



HATHOR 3

ACQUISITION STATION



The product

Advantages

Applications :

RESEARCH

Seismology,
Volcanology...

Function

- Hathor 3 is an acquisition station which allows data storage on three channels.

Setting up

- The communication with the station is executed by means of a PC equipped with the appropriate software (provided), or by means of a GSM modem (if the option has been held).

Flexibility

- The equipment falls in with the CE norms and its box is designed to fight a duel (water-tightness, resistance, autonomy...). Its major performances are : large storage, easy programming, use and many applications (seismology, volcanology...). This product is the result of a long collaboration between LEAS and the University (more than 15 years).

Manufacturer

LEAS - ZA Pont Rivet - BP 38 - 38330 St Ismier - France
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Distributor

VIBRATIONS MESURES - 14 rue Corvisart - 91260 Juvisy sur Orge - France
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Email : phg@francenet.fr

Technical characteristics

Electrical

- Voltage : External 12,6 Volts DC.
- Consumption :
 - Acquisition mode : 50 mA.
 - Data transmission to internal PC : 550 mA during 180 seconds each 1h30 at 100 Hz in continuous mode.
- Auto power off mode in case of low battery (<9,6V).
- Analog input : 3 channels (differential inputs).
- Pre-amplifier gain : 4 selectable.
- ADC : 24 bits Delta Sigma.
- ADC gain : 1 to 128 software selectable.
- Dynamic range : 108 dB at 100Hz.
90 dB at 250 Hz.
- In accordance with CEM legislation.
- Sample rate : Up to 300 sps.

Mechanical

- Dimensions : 300 x 250 x 120 mm.
- Weight : 4,5 kg.
- Temperature range : -5°C / +40°C.
- Box : IP 65.
- Connectors : FRB type.

Use

Recorder modes

- Trigger modes :
 - Selectable fixed level.
 - STA va. LTA.
 - External trigger.
- Windows mode.
- Continuous mode.
- Continuous and trigger modes.

Timing

- TCXO 1 ppm (option) : Synchronization made by external signal DCF-UTC, or LPC² (LEAS Position and Clock Code) with a LOCSAT (GPS receiver internal or external).
- Time lag is recorded.

Storage

- Modem link : Data are stored in the 4 MB Ram. (GSM transmission will be available soon)
- OR
- Extractable IDE hard disk 3,2 GB : storage capacity of 2 months at 100 Hz.

Programming and communication

- Means : Direct cable link or modem link.
- Software provided :
 - SIS3DIR for local communication.
 - SIS3MOD for modem communication at 14 400 Bds.
 - SIS3BUS for data local retrieval.
 - PICKEV for data proceeding.
 - SISMALP format converter to AH or SAC formats.
- Parameters : Time, identification, station name and password, viewing of online data without stopping measurements, viewing of parameters, checking of storage capacity, checking of power supply and temperature, online data retrieval without stopping measurements...
- Control led : Startup, time synchronization, storage...