

## Borehole sensors, data acquisition and processing systems for geophysical exploration (PS logging, seismic survey)



### GEODAS (Geophysical Data System)

The equipment is used for data acquisition and recording of ambient and artificial vibrations. It includes a pre-amplifier (amplifying factor 0, 20, 40 dB), analog-digital convertor with a 24 bits resolution, GPS build in receiver and laptop PC for control and data processing.

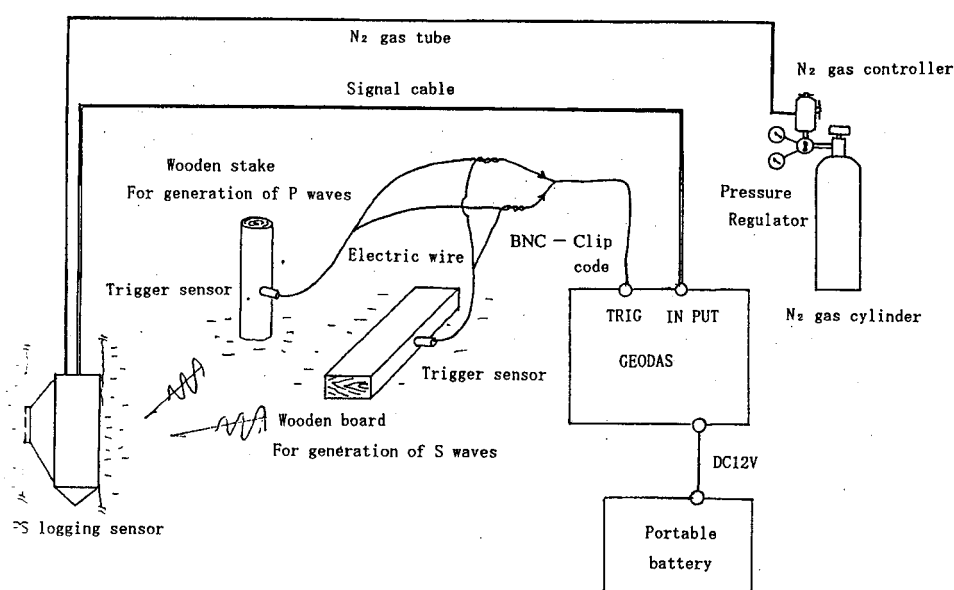


Figura 1. Conectarea componentelor pentru realizarea masuratorilor de tip downhole

Echipamentul pentru masuratorile in situ de viteze fabricat de Tokyo Soil Research Co., Ltd este alcatuit din:

#### 1. Statia de achizitie (GEODAS):

- Preamplificator
- AD convertor
- laptop Compaq
- GPS

#### 2. PS Logging Sensor (SPUM) Moving coil type velocity seismometer:

- 3 componente (2 orizontale si 1 Verticala);
- sensibilitate - 0.075 V/cm/s;
- Banda frecvente 28 – 300Hz;
- greutate – 4.4kg;
- dimensiune  $\Phi 60 \times 420 \text{mm}$ );
- Ciocan actionat mecanic.

### 3. Accesorii

- Baterie portabila
- Tub de azot impreuna cu distribuitorul de gaz
- Placa si pilot de lemn;
- Software pentru analiza de semnal.



Down-hole measurements