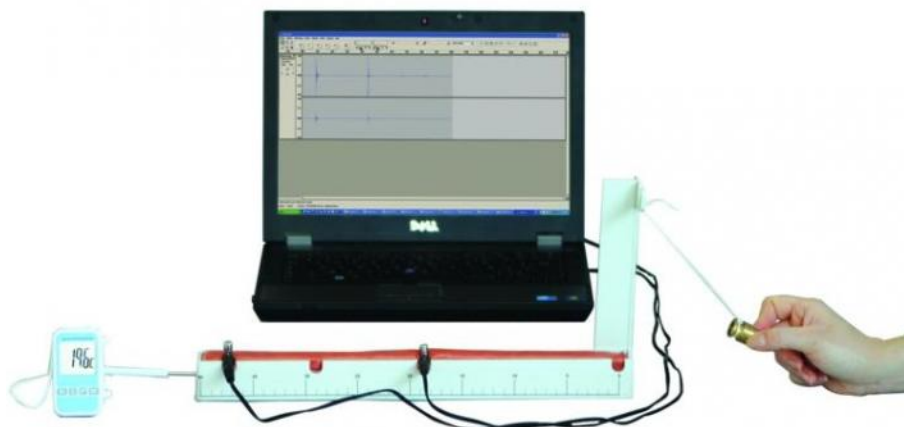


INFLUENCE OF THE TEMPERATURE ON THE PROPAGATION OF SEISMIC WAVES MODEL

Reference : SISMOTEMP



Thanks to the experimental mould and its stand, the Sismotemp model will allow students to calculate the speed of propagation of a wave in the same material, modelling clay, at different temperatures and in a reproducible manner.

This kit contains an experimentation mould for creating clay bars and specially designed to create and study the propagation of a shock wave. It allows you to obtain reproducible results.

The experiment mould makes it possible to fashion fairly identical modelling clay bars that can be studied in parallel. One, previously placed in the freezer, the other remained at room temperature, undergo a shock wave created by a weight hanging from the stand. The seismic wave is recorded using piezometer sensors, located at a fixed distance from each other, and Audacity software.

The colder the material, the faster the seismic wave propagates through the clay bar. These seismograms can be recorded and analysed on the Audacity software.

The experiment mould also includes a graduated ruler facilitating the rapid determination of the distance between the two measurements of the seismic wave.

The speed of propagation of the wave is thus easily calculated from this distance and the seismogram obtained with the Audacity software.

Composition :

- A SISMOTEMP model
- A moulding roll

- A hook ball

Necessary material:

- Modelling clay. Ref. PAMOD
- 2 piezometers. Ref. MICROPIEZ
- 2 connection cables - piezometers / sound card. Ref. RALPIEZ
- 1 Y Jack splitter. Ref. JACKY
- 1 computer equipped with a stereo sound card +Audacity software