GEOLOGICAL, GEOPHYSICAL, GEOTECHNICAL SERVICES AND INSTRUMENTS

OYO

Seismic Digital Timer

HANDY SEIS PS-1 NEO

<Abstract>

● Handy Seis PS-1 NEO is a palm-sized seismic digital timer for velocity measurement.

● User-friendly system. (Pressing the RESET button, adjusting gain, and hammering an excitation point would display an arrival time of elastic wave to a receiving point.)

● Easy to read by using a digital display system.

● A set of equipment supplies in a carrying case which gives easiness for portability.

● It is powered by four (4) size AA dry cells.

<Features>

● For velocity measurement in tunnels and test tunnels

● For velocity measurement of bedrock outcrop

● To identify rippability of road and land formation
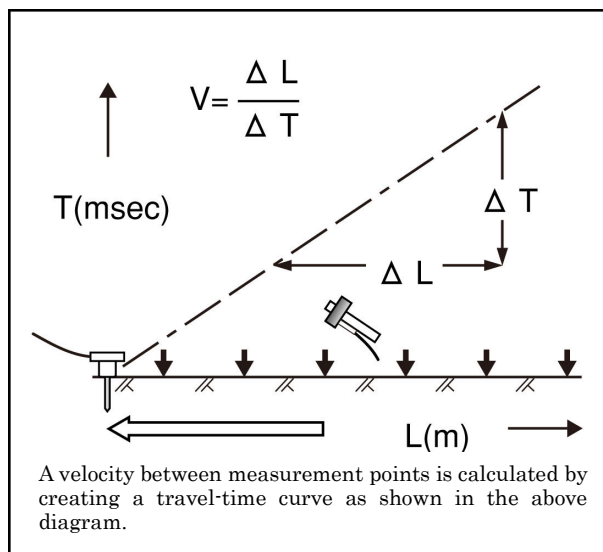
● For other measurements for civil engineering

\<Specifications\>

Time display : 00.0 ～ 99.9msec

Time accuracy : +/-0.1% (+/- 1 digit)

Gain : 74 dB (max)

Frequency
 Characteristics : 50 ～ 500Hz

Power : Four (4) size AA dry cell

Usable dry cell : Manganese, Alkaline, Oxyride,
 Nickel-Cadmium or
 Nickel-hydride dry cell

Dimensions : 95（W）×162（H）×35（D）mm

Weight : approx. 250g (without dry cell)
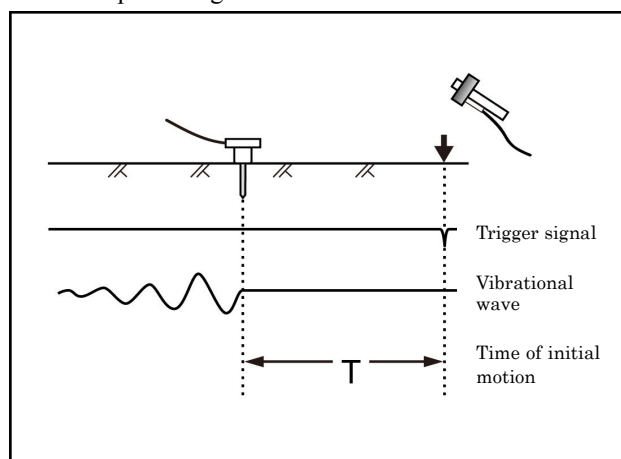
\<Composition\>

PS-1 NEO main unit

Geophone : 28Hz with 1m cable

Hammer switch : Hammer switch with 3m cable

Extension cable : 30m

Carrying case : 350（W）×250（H）×160（D）mm

Volume of
 carrying case : approx. 4kg (with all accessories)

$$V = \frac{\Delta L}{\Delta T}$$

A velocity between measurement points is calculated by creating a travel-time curve as shown in the above diagram.

■ Conceptual diagram of measurement