GEOLOGICAL, GEOPHYSICAL, GEOTECHNICAL SERVICES AND INSTRUMENTS



# 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 :  $00.0 \sim 99.9$ msec Time accuracy : +/-0.1% (+/-1 digit)

Gain : 74 dB (max)

Frequency

Characteristics : 50 ∼ 500Hz

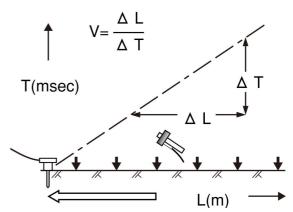
Power : Four (4) size AA dry cell

Usable dry cell : Manganese, Alkaline, Oxyride,

Nickel-Cadmium or Nickel-hydride dry cell

Dimensions :  $95(W) \times 162(H) \times 35(D) mm$ 

Weight : approx. 250g (without dry cell)



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

# <Composition>

PS-1 NEO main unit

Geophone : 28Hz with 1m cable

Hammer switch : Hammer switch with 3m cable

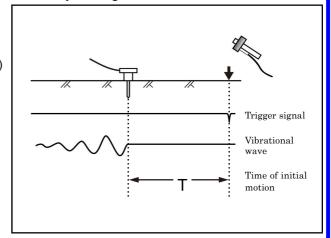
Extension cable : 30m

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

Volume of

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

■ Conceptual diagram of measurement





QUALITY SYSTEM

JQA-2772

Please note specifications are subject to change without notice for the improvement.

#### • Instruments & Solutions Division

43 Miyukigaoka, Tsukuba, Ibaraki, 305-0841 Japan Phone: +81-(0)298-51-5078, Fax: +81-(0)298-51-7290 e-mail: seihin@oyo.jp

#### • Sigmetric, S.A. de C.V.

Erasmo Castellanos Quinto 444, Colonia Educación, Ciudad de México, C.P. 04400 Teléfono: 55.5658.2997 & 55.5554.9657 ■ Your representative

