GEOLOGICAL, GEOPHYSICAL, GEOTECHNICAL SERVICES AND INSTRUMENTS

OYO

ULTRASONIC VELOCITY MEASURING SYSTEM FOR ROCK SAMPLE

SonicViewer-SX

＜Abstract＞

The SonicViewer-SX is an instrument for the ultrasonic wave velocity measurement of rock samples.

It is possible to read the P and S wave propagation with high accuracy, because it contains high voltage (500V) pulser and receiver which consists of 10 bit, 50nsec A to D converter.

In addition, input of the parameter of length and density of the rock sample previously, then it can calculate dynamic poisson's ratio and dynamic shear modulus by built in software.

＜Features＞

- Propagation time can read from wave form of P and S with high accuracy.
- High resolution and high speed 10 bit, 50nsec A to D converter available.
- Built in software available for calculate of dynamic poisson's ratio, dynamic shear modulus and dynamic elastic coefficient.
- Data storage feasible on HDD and 3.5" FDD.
- High brightness and large screen (10.4 inch) VGA LCD display has been adopted.
- Signal stacking function improves the S/N ratio and widen its applicability.

＜Specifications＞

- **Transmitter**

Output voltage	: 500V
Pulse width	: 6 μ sec

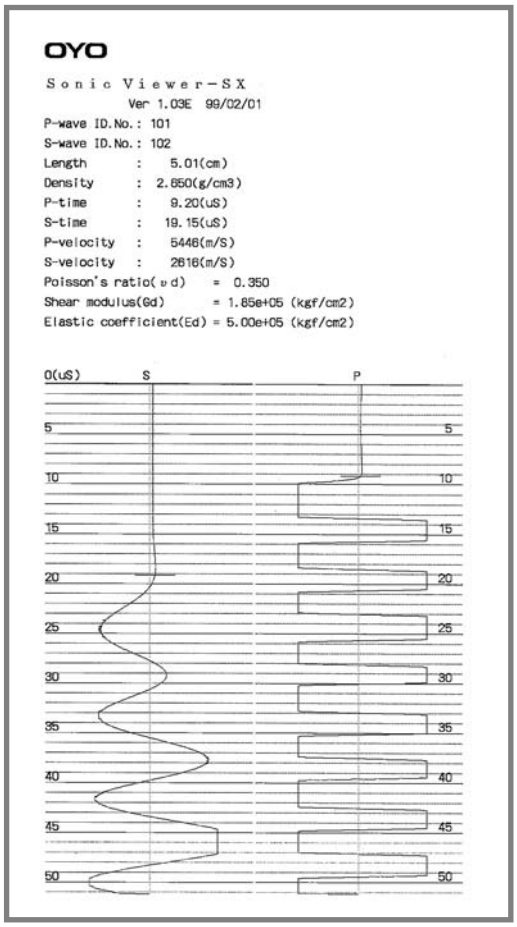
- **Receiver**

Input impedance	: 1M Ω
Gain	: 1, 2, 5, 10, 20, 50, 100, 200
Frequency range	: 10 – 1000KHz
Low pass filter	: 200KHz, 1000KHz
A/D resolution	: 10 bit
Sample rate	: 50, 100, 200, 500, 1000, 2000nsec
Data length	: 1024

- **System**

Display	: 10.4” LCD, 640 x 480 dots
Data storage	: HDD, 3.5” FDD
Power requirement	: DC12V, 2A (max)
Dimensions	: 330(W) x 280(D) x 220(H) mm
Weight	: 7 kg

＜Example record＞



＜Option＞

- AC adapter
  Input voltage : AC 85-120V
  Output power : DC12V, 14A

- Transducers
  P-wave transducer: 200KHz
  500khZ
  S-wave transducer: 100KHz

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

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