



The PMI Advanced Automated Atmospheric Acoustic Velocity System

Not just products...solutions!

PRINCIPLE

When a wave with known properties passes through a new medium, the wave will have changed after leaving the other side of the medium. By measuring the new properties of the wave, the acoustic velocity for the medium can be calculated as well as dynamic and elastic constants including Young's bulk and shear, Poisson's ratio, and dynamic moduli.

UNIQUE FEATURES

- Fully Automated computer controlled system
- Simple sample setup
- Easy to use software
- Automated data acquisition
- PMI reporting software creates and exports reports to Excel

Types of Samples:

Rock Cores

Reported Values:

- Acoustic Velocity
- Young's bulk and shear
- Poisson's ratio
- Dynamic moduli
- Raw data

Application

Oil Industry

THE PROCEDURE

After the rock core is loaded into the sample chamber, a test is setup in the software. The test will send a wave through the sample and receive it on the other side. The data is recorded and used to calculate and report the acoustic velocity, Young's bulk and shear moduli, Poisson's ratio, and dynamic moduli.

THE INSTRUMENT

The PMI Atmospheric Acoustic Velocity System has been designed with the user in mind. The system is used for the measurement of rock compressibility, acoustic velocity and pores. The sample setup is effortless and designed to work with a variety of samples. The software will fully control the instrument while running a test and in manual control. The data is automatically recorded and the reporting program will display the results for the test as well as export the results into Excel. The machine is robust and requires minimal maintenance for extended periods of time. Great care has been taken in the production of this machine to provide the most accurate results.

SPECIFICATIONS

- Computer controlled Automated system with state- of- the- art data acquisition system
- **Operating pressure:** Atmospheric, (Overburden upon request)
- **Operating temperature:** up to 50°C
- **Core sample diameter:** 1" and 1.5", adjustable upon request
- **Core sample length:** up to 3" adjustable upon request
- **Center frequency:** 500 KHz
- **Waves:** compressional and shear (S1 & S2)
- **Wetted Material:** 316SS
- **Electrical:** 220\240VAC, 50\60 Hz

SALES & SERVICES

Our sales team is dedicated to helping our customers find which machine is right for their situation. We also offer custom machines for customers with unique needs. To find out what we can do for you, contact us. We are committed to customer support including specific service products, short response times & customer specific solutions. To quickly & flexibly meet our customer's requirement, we offer a comprehensive range of services.



Customize your machine today!

Disclaimer : Other specifications of this product are also available.
Design subject to change without notice.

The most advanced, accurate, easy to use and reproducible Acoustic Velocity Systems in the world.

Celebrating



of solutions



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