Grace INSTRUMENT

SCIENTIFIC INNOVATIONS • INDUSTRIAL SOLUTIONS

M7360

Ultrasonic Cement Analyzer

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Innovative Technology Provides Efficiency & Dependability

The Grace Instrument M7360 Ultrasonic Cement Analyzer is used to perform compressive, non-destructive strength tests on cement slurries under controlled conditions of temperature and pressure.

In these tests, the M7360 Ultrasonic Cement Analyzer transmits an ultrasonic pulse through a cement slurry sample. By measuring the length of time required for the pulse to travel through the sample, the *M7360 PC* software determines the compressive strength of the cement.

As the cement hardens, the pulse transit time becomes shorter, allowing the system software to calculate changes in the compressive strength of the cement sample over time. This data is then collected into a customized database for comprehensive analysis, including comparison with data from previous tests. This data can also be easily exported in spreadsheet format.

Compact, Lightweight Design With Powerful Capability

Understanding and predicting the likely changes to the strength of oil well cement during curing is tremendously important in maintaining the integrity of a well. By enabling the researcher to construct test sequences, analyze completed test results, and compare those results with previous results, the M7360 delivers a powerful analytic tool in one compact package.

Operational Features

- *Lightweight pressure vessel capable of up to 20,000 psi, while being easy to clean up and maintain.*
- *Test sequences can be amended during test operations.*
- *Touch-screen controls enhance ease-of-use.*
- *Temperature is monitored and regulated automatically.*
- *Pressure is regulated by back pressure regulator under 10,000 psi and by air pressure regulator above 10,000 psi.*
- *Continuous measurement of cement sample under conditions of temperature and pressure.*
- *Analysis software is MS Windows-compatible.*
- *Reliable over temperature/pressure/consistency/time protection.*
- *PC software capable of controlling up to 8 units.*

Specifications:

Temperature Range:	Amb. to 400 °F
Pressure Range:	Atm. to 20,000 psi
Operating Temperature:	32-105 °F
Operating Humidity:	0-95% Non-Condensing
Compressed Air:	50-100 psi
Chiller/Cooling Water:	5-80 psi
Heater Power:	2,000 W
Voltage:	220-240V AC
Current:	15A
Frequency:	50/60 Hz
Height:	15 in.
Width:	16.5 in.
Depth:	22 in.
Weight:	80 lbs.