

Modular Ultrasonic Cement Analyzer

FEATURING NEW UCA CONTROLLER

Fann Instrument Company's Modular UCA (Ultrasonic Cement Analyzer) offers a standalone, adaptive design for scalable daisy chain configurations specific to each lab's needs. Its single pressure system can be shared and managed for pressure ramps on multiple units.

NEW UCA CONTROLLER FEATURES

- Compact, space-saving footprint
- With user supplied computer, multiple units can be controlled
- Controls and records pressure and temperature
- Programmable pressure and temperature ramps to simulate wellbore conditions
- Integrates with existing Fann UCA autoclave
- User determined ultrasonic pulsing intervals
- Alert indicator warns for events, errors

FEATURES OF COMPLETE ASSEMBLY

- Ultrasonic compressive strength measurement up to 400°F and 20,000psi
- Measurement and control of temperature and pressure on multiple systems
- User programming of temperature and pressure ramps
- Built-in safety features to prevent over-pressure/over-temperature situations
- Automatic recording of transit time, temperature, pressure, compressive strength
- Modular design supports serviceability and reduced downtime



MODULE COMPONENTS

Component	Part Number	Function	Power	Air	Water
Pressure Controller	102271450	Controls and monitors pressure	100 to 240V AC 50/60 Hz	80-100psi	20psi
Autoclave Assembly	101002037	Holds cement sample and controls temperature	230V AC 50/60 Hz		
UCA Controller	102444466	Ultrasonic engine that integrates and controls the system	100 to 240V AC 50/60 Hz		
Plumbing Kit	102363627	Essential connection kit to connect all the components			

Modular UCA Quick Look	
Pressure Range	20,000psi
Pressure Control	100psi
Pressure Ramping	Configurable by user
Temperature Range	50°F to 500°F
Transit Time Resolution	0.05 µs
Acquisition Rate	10 s to 10 min user and segment driven
Integration	Fann UCA autoclave, Fann 30KPS, generic pressure controller, user supplied computer
Data Logging Capable	Yes
Multiple Machine Control	Yes, with ability to share resources

Part Number – 101887045 Modular UCA

Fann Instrument Company offers a complete line of equipment, materials, and supplies for analyzing various drilling fluids and oil well cements in accordance with API Specifications and API Recommended Practices.