

# OIL WELL CEMENTING

## CEMENT EXPANSION CELL MODEL 4268-E

### A Critical Tool for Oil Well Drilling and Cementing

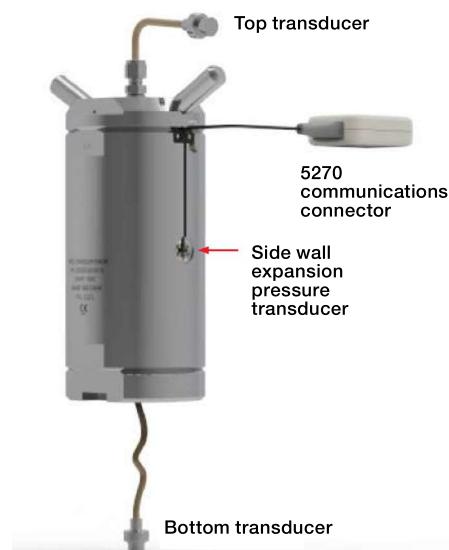
Oil well cement expansion is a fundamental aspect of ensuring the integrity and sealing capabilities of oil and gas wells. Properly designed and controlled cement formulations are essential to provide isolation that prevents the unwanted migration of fluids within the wellbore. This isolation is crucial for well control, production optimization and environmental protection.

The Model 4268-E Cement Expansion Cell is specifically engineered for real-time assessment of cement expansion characteristics under downhole conditions. This instrument serves as an accessory for use alongside either the standard Model 4265 Ultrasonic Cement Analyzer (UCA) or the Model 5265 Static Gel Strength Analyzer (SGSA). It features a pressure transducer positioned radially, enabling the measurement of cement expansion at downhole pressures and temperatures. Additionally, it seamlessly integrates with Chandler Engineering's Data Acquisition and Control Software and is CE and Pressure Equipment Directive (PED) compliant.

The Model 4268-E Cement Expansion Cell offers a ground breaking solution for assessing cement composition's expansion properties under downhole conditions. Chandler Engineering's decades-long expertise in designing and manufacturing instrumentation for oil well cementing, provides unmatched reliability.

### FEATURES

- ✓ Designed to replace the standard pressure vessel assembly used with Model 4265 UCA and 5265 SGSA
- ✓ Equipped with a radially positioned pressure transducer used to sense the expansion of cement
- ✓ Standard ultrasonic measurement features for compressive strength and static gel strength estimations
- ✓ Fully compatible with Chandler Engineering's 5270 Data Acquisition and Control software
- ✓ CE compliant electronics, PED compliant pressure vessel



## CEMENT EXPANSION CELL

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#### SPECIFICATIONS

**Temperature Range**

34°F – 356°F (1°C – 180°C)

**Maximum Pressure**

10000 psi / (689.5 Bar)

**Dimensions**

9.7" (24.6cm) high x 6.8" (17.3cm) wide x 4" (10.2cm) deep

**Weight**

26 lbs (11.8 kg)

