Cement Static Gel Strength Measurement Device, 20,000 PSI



Brand: OFI Testing Equipment, Inc.
Product Code: 120-58
Availability: Call for availability
Call for Price: 832-320-7300

Description
The Static Gel Strength Measurement (SGSM) device is an accessory component to the OFITE Ultrasonic Cement Analyzers (UCA), as shown in the picutre. It uses a vaned bob to condition a cement slurry inside a pressurized test cell and intermittently measure static gel strength at down-hole conditions. By directly measuring the forces required to initiate movement in the sample, the SGSM provides an accurate way of determining the static gel strength.

U.S. Patent No. 9,612,232

For more information, click here.

Features

- Automatically conditions the slurry in-place (1 - 150 RPM)
- Provides a direct mechanical measurement of static gel strength
- Simultaneously measures static gel strength and compressive strength (dual-cell units only)
- Intermittent or continuous measurement under high-temperature, high-pressure conditions
- Data acquisition system with automatic temperature control included
- Simple calibration and system check
- Quick clean up and turn around

Specifications

- Compatible with both the Single Cell UCA (#120-50) and the Dual Cell UCA (#120-52)
- Maximum Temperature: 400°F (204°C)
- Maximum Pressure: 20,000 PSI (138 MPa)
- Size (Including Cell): 20” Tall × 6” Diameter (51 × 15 cm)
- Weight: 50.6 lb (23 kg)

Requirements

- Power: 100 - 240 Volt, 50 - 60 Hz, 2 Amp
- Computer
    - Windows XP or higher
    - RS-232 Serial Port (or Serial to USB Adapter)
    - Minimum Screen Resolution: 1280 × 680

Software Features

- Data is available in real time on-screen and is also stored in an Excel® spreadsheet for easy graphical viewing and printing
- A computer running OFITE software graphs the data from both cells
- Windows®-based software

Components

- #120-209: Thermocouple Assembly
- #120-50-21A: Cell Body
- #120-50-021B: Cell Cap, Bottom
- #120-50-026: Retaining Ring
- #120-50-027-1: Seal Ring
- #120-53-01: Vane Assembly
- #120-53-25: Cable, 25 Pin, Male to Male, 10 Feet
- #120-53-31: O-ring for Mounting Adapter, Lower
- #120-53-32: O-ring for Mounting Adapter, Upper
- #120-53-33: Spring
- #120-53-34: Load Cell
- #120-53-42: Bushing, Graphite
- #120-53-58: Backup Ring, Upper
- #120-53-59: Backup Ring, Lower

- #120-53-60: Retaining Ring, Internal
- #120-53-80: Electronics Box
- #120-53-81: Wrench, Combination, 3/16"
- #120-58-05: Retaining Ring, External
- #120-58-23: Diaphragm
- #120-58-38: Retaining Ring, Internal
- #120-75-10: Weight Set
- #122-073: Fuse, 2 Amp, 5 mm × 20 mm
- #130-79-15: Serial Cable
- #152-37: AC Power Cord, 115 Volt
- #220-10A-EURO: Power Cord, 230V/10A European Plug
- #220-15A-EURO: Power Cord, 230V/15A European Plug
- #220-15A-USA: Power Cord, 230V/15A USA Plug
- #220-20A-USA: Power Cord, 230V/20A USA Plug

Part Number

- #120-58