

### **Designed for Fast and Easy Operation via PC Control**

The patent-pending Grace Instrument M7540 Consistometer/SGS Tester measures slurry consistency, thickening time and static gel strength while the slurry is subjected to simulated down hole conditions. The proprietary design of roller bearings on the paddle shaft reduces measurement errors. Innovative hardware design also prevents hydraulic fluid from mixing with the test sample. PC software included with each unit allows the user to construct test sequences, run tests, and interpret test results quickly and efficiently.

### **Robust Components Provide Exacting Measurements**

The M7540 features a rotating paddle that turns at speeds up to 250 rpm. Cement slurry is placed in a temperature- and pressure-controlled cell, which is tested under conditions that are specified by the user through the PC software. The paddle is driven by a servo through a magnet coupling. The torque read by the servo is then used to determine the slurry consistency or static gel strength. Roller bearings on the shaft paddle help to reduce friction measurement error. The unique design of the M7540 also prevents mixing of pressurization fluid with cement due to stirring.

### **Simple Set-Up, Easy Operation, Reliable & Repeatable Testing**

The Grace Instrument M7540 Consistometer/SGS Tester enables the operator to perform accurate, dependable test operations with minimal preparation time. The hardware design makes the instrument easy to set up, use and clean. All hardware components are created in accordance with API specifications.



### **Operational Features**

- Use ball bearing to support inside rotating paddle, which substantially improve accuracy and sensitivity of the instrument
- Design of preventing cement contaminating from hydraulic oil
- Automatic PC-controlled temperature and pressure
- Automatic 6 channel data logging with easy export
- Accurate measurement by super precise servo
- Reliable over temperature/pressure/consistency/time protection
- PC software capable of controlling up to 8 units
- Dimensions of paddle and cell fully comply with API 10B standard

### **Specifications:**

Temperature Range:	Up to 400 °F
Pressure Range:	Up to 20,000 psi
Heater Power:	1,500W
Power Supply:	240 V, 50/60 Hz
Slurry Cup Rotation:	0 - 250 rpm
Static Gel Speed:	0.2 deg/min.
Pressure Medium:	White mineral oil
Compliance:	API Spec 10A API 10B ISO 10426-1

### **Dimensions:**

Height:	27 in.
Width:	18 in.
Depth:	21 in.
Weight:	85 lbs.