ELECTROMAGNETIC VISCOMETER

EV 1300

Precision viscosity measurement

under extreme pressure & temperature conditions

0.2 – 10,000 cP

Viscosity Range

Up to 200°C

Temperature

Up to 20,000 psi

Pressure

20 cc

Sample Volume

Designed for demanding laboratory and field applications — Oil, Gas & Petrochemical

EV 1300 – Vibrating Rod Viscometer

Technology & Specifications

TECHNICAL SPECIFICATIONS	
Viscosity Range	**0.2 – 10,000 cP**
Accuracy	**±2% of displayed value**
Pressure Range	**Up to 20,000 psi**
Temperature Range	**Ambient to 200°C**
Sample Volume	**20 cc**
Wetted Parts	**Stainless steel**
Power Supply	**220 VAC**
Dimensions (W×H×D)	**700 × 950 × 650 mm**

EV 1300 – Vibrating Rod Viscometer

Technology & Specifications

OPERATING PRINCIPLE

- ❑ A rod vibrates inside a 20-ml measurement cell at a known frequency.
- ❑ A piezoelectric sensor measures this damping. The electrical signal is proportional to the fluid's viscosity
- ❑ The vibration amplitude changes according to the viscosity of the surrounding fluid
- ❑ The viscous fluid dampens the vibration. The higher the viscosity, the greater the damping.
- ❑ The viscometer converts this signal into a viscosity value. Measurement is continuous and real-time.

- ❑ Two interchangeable probes cover the full range: Probe 1 for 0.2–200 cP, Probe 2 for 200–10,000 cP.
- ❑ Inlet & outlet valves are provided within the cell
- ❑ An integrated air bath maintains uniform thermal control up to 200°C.
- ❑ Factory-calibrated; field recalibration possible using silicone oil (NIST standards)