

VISCOlab 4000 LABORATORY VISCOMETER

FOR VISCOSITY MEASUREMENTS FROM 0.2 TO 10,000 CENTIPOISE

rev. 3/5/12



Cambridge Viscosity's most advanced sensor and electronics give the new VISCOlab 4000 power to measure an exceptional range of fluids and viscosities with one lab instrument.

Operating Principle

The VISCOlab 4000 contains a piston-style electro-magnetic sensor and RTD that provides continuous viscosity, temperature and temperature compensated viscosity (TCV) readings.

Measurements can be made in any of twelve 20:1 viscosity ranges. Viscosity can be displayed in either centipoise or centistokes, temperature can be displayed in °C or °F.

The optional liquid circulating jacket permits operation from -40°C to 110°C. Multiple operating ranges and product set-ups can be precalibrated.

Data can be output to a PC, via the RS-232 serial port for tracking, storage or graphical display. The electronics allow the user to define temperature and viscosity display units, data averaging interval, density and much more. The electronics also provides digital readings, as well as, statistics on sample stability that allow greater repeatability between tests and operators.

Key Features

- Requires less than 2 ml of fluid
- Simple to use, easy to clean
- Minimum bench space required
- Digital displays of centipoise or centistokes
- Digital temperature display in °F or °C
- RS232 Interface
- Stores up to 40 product specific test set-ups
- Optional liquid recirculating jacket and cap
- Standard deviation of sample readings for enhanced repeatability

Correlates with ASTM D445

Specifications

Viscosity	0.2 to 10,000 centipoise (cP)
Piston Ranges	0.2-2cP, 0.25-5cP, 0.5-10cP, 1-20cP, 2.5-50cP, 5-100cP, 10-200cP, 25-500cP, 50-1,000cP, 100-2,000cP, 250-5,000cP, 500-10,000cP
Viscosity Accuracy ¹	±1.0% of full scale
Repeatability	±0.8% of Reading
Temperature Sensor	4 wire internal Platinum RTD
Wetted Materials	316L and 430 Stainless Steel
Maximum Particle Size	25-800 Microns (Range Dependent)
Standard Cable Length	2 Feet
Power	100-240 VAC/50-60Hz or 9-36 Volt DC

1) ±1.5% of full scale 500-10,000 cP range

Options



Flow Through Jacket

The VISCOlab 4000 can feature a jacket for temperature control with a recirculating bath. V.304 S.S. (for heating/cooling).

Multiple Ranges (One piston per range)
Flow Through Jacket V304 S.S. (for heating/cooling)
Printer and cable for QC reporting control and sample control
ViscoLab 4000 sample chamber sealing cap
Recirculating baths



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