

VISCOlab 3000 LABORATORY VISCOMETER

FOR VISCOSITY MEASUREMENTS FROM 0.2 TO 20,000 CENTIPOISE



Cambridge Viscosity's most advanced sensor and electronics give the new VISCOlab 3000 power to measure an exceptional range of fluids and viscosities with one lab instrument.

Operating Principle

The VISCOlab 3000 contains a piston-style electromagnetic 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.

Integrated temperature control allows user defined measurements at any setting from slightly above ambient to 356°F (180°C) and from ambient to -40°C with optional cooling jacket. The sensor is easily field calibrated. 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

- Integrated temperature control
- Requires less than 1 ml for low viscosity fluids
- 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
- Removable liquid recirculating jacket and cap

Correlates with ASTM D445

Specifications

Viscosity	0.2 to 20,000 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, 1,000-20,000cP
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	25-360 Microns (Range Dependent)
Temperature Control*	Slightly above ambient to 356°F (180°C)
Standard Cable Length	3 Feet (0.9 meters)
Power	100-240 VAC, 50-60Hz

¹) ± 5% of full scale 500-10,000 and 1,000-20,000cP ranges

Options

Multiple Ranges (One piston per range)
Additional Cable
Insulator Sleeve (For operating temperature above 80°C)
Insulator Cap (For operating temperature above 80°C)
Cooling Jacket (For re-circulation fluids)



Cambridge Viscosity®

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