



LAB VISCOSITY MEASUREMENTS FROM 0.2 TO 20,000 CENTIPOISE

# VISCOlab 3000



## VISCOlab 3000

The VISCOlab 3000 contains a piston-style electromagnetic sensor and integrated thermometer that provides continuous viscosity and temperature 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

above ambient to 356°F (180°C) and from above 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 provide digital readings, as well as statistics on sample stability that allow greater repeatability between tests and operators.

The VISCOlab 3000 is available in application specific configurations for diesel, lube oil, bunker oil, asphalt/bitumen, and gear oil. See specifications chart for more information.

### KEY FEATURES

#### Easy to Use and Maintain

- Digital displays of centipoise and centistokes
- Stores up to 40 product specific test set-ups
- Removable liquid recirculating jacket and cap

#### Enhanced Features

- Minimizes product waste by requiring less than 2ml of fluid
- Requires small amount of bench space
- Lightweight and portable
- Internal heater for temperature control at 40/50/100/135/150

#### High Accuracy and Reliability

- Software measures the sample multiple times until the standard deviation is less than 0.2% before displaying a viscosity value per ASTM 7483

### APPLICATION RANGE

Viscosity measurements from  
0.2 To 20,000 centipoise

### STANDARD METHODS

Complies with ASTM D7483  
Correlates with ASTM D445





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## SPECIFICATIONS

|   |                                     |
|---|-------------------------------------|
| Viscosity   | 0.2 to 20,000 centipoise (cP)       |
| Viscosity Accuracy*   | ±1.0% of full scale w/ViscoPro 2000 |
| Repeatability   | ±0.8% of Reading                    |
| Temperature Sensor  | PT100                               |
| Wetted Materials  | 316L and 430 Stainless Steel        |
| Maximum Particle Size   | 25-360 Microns (Range Dependent)    |
| Temperature Control   | Above ambient to 356°F (180°C)      |
| Standard Cable Length   | 3 Feet ( 0.9 meters)                |
| Power   | 100-240 VAC, 50-60Hz                |
| VISCOLab 3000 Diesel : Measures diesel oil from 0.5-10cP at 40°C                    |                                     |
| VISCOLab 3000 Lube Oil: Measures lube oil from 1-20cP at 100°C and 25-500cP at 40°C |                                     |
| VISCOLab 3000 Bunker: Measures bunker oil from 50-1000cP at 50°C                    |                                     |
| VISCOLab 3000 Asphalt: Measures asphalt from 250-5000cP at 135°C and 150°C          |                                     |
| VISCOLab 3000 Gear Oil: Measures gear oil from 50-1000cP at 40°C                    |                                     |

\* ± of 5% of full scale 500-10,000 and 1,000 to 20,000cP Ranges

## OPTIONS

|   |                                 |
|---|---------------------------------|
| Insulator Sleeve (For operating temperature above 80°C) |                                 |
| Insulator Cap (For operating temperature above 80°C)    |                                 |
| Cooling Jacket (For re-circulation fluids)              |                                 |
| Low Temperature Cap (Up to 50°C)                        |                                 |
| Optional 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,       |
|   | 1500-10,000cP*, 1,000-20,000cP* |



## Cambridge Viscosity

With more than 10,000 installations worldwide, Cambridge Viscosity is the proven leader in viscosity management technology. With over 25 years of experience, Cambridge Viscosity understands and meets the needs of laboratory researchers and process engineers in a wide range of industries whose jobs depend on the quality, accuracy, and reliability of viscosity measurement equipment. With their patented sensor technology, Cambridge Viscosity has become the gold standard in small sample viscosity measurement.



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