VISCOlab 5000 LABORATORY VISCOMETER

µSample Viscometer

rev. 3/5/12

Operating Principle

Product Description

The VISCOlab 5000 requires only 75 µL of sample for accurate and repeatable results: the smallest sample requirement for any automated viscosity measurement system available today. The sample is simply introduced to the measurement chamber via pipette. Then the VISCOlab 5000 takes over, controlling the temperature, measuring the viscosity, processing the data and reporting the results on the screen or optional printer.
The tests are performed at the desired temperature through an imbedded Peltier cell without requiring temperature-control fluids. Cleaning is simple and verified through the device's self-tracking.

Technology Overview

The core of the system is a Cambridge Viscosity electromagnetic viscometer. The VISCOpro electronics continuously drives a piston with a magnetic field through the fluid to measure viscosity. The VISCOlab software controls and monitors the tests and ensures stability and accuracy of the measurement. Internal to the sensor is a RTD to provide accurate temperature measurements.

Key Features

- 75 µL per measurement
- Accurate results
- Simple to use
- Easy to clean
- Statistical analysis of viscosity data
- Integrated Peltier temperature control
- Easy integration into LIMS programs

Lab technician is introducing test sample to temperature-controlled measurement chamber.

Specifications

Sample Size	<75 micro-liters
Throughput Time	< 20 minutes per test
Viscosity Accuracy	+/- 3.5% of reading throughout range
Viscosity Repeatability	+/- 1% of reading
Viscosity Range	0.5-50cP
Temperature Range	5ºC-95ºC
Temperature Control Accuracy	+/- 0.05ºC
Benchtop Dimensions	21 in. (depth) x 20 in. (combined length)
Wetted Materials	316L SS, Teflon

Cambridge Viscosity by PAC
101 Station Landing Medford, MA 02155 USA
T: 781-393-6500 ~ www.cambridgeviscosity.com

PAC
8824 Fallbrok Drive Houston, TX 77064 USA
T: 1.800.444.TEST ~ www.paclp.com