How it works

A full measurement routine takes as little as 1 minute, and is easy to do.

1 Load the sample into the disposable positive displacement pipette.

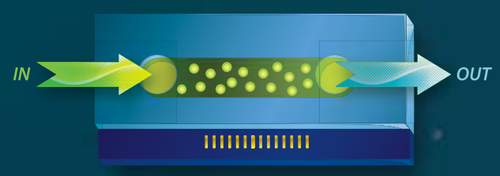
2 Mount the pipette.

3 Push the RUN button.

• *See it done! Go to:* ***www.youtube.com/user/rheosense***

Principle

VROC® (Viscometer-Rheometer-on-a-Chip) is the only MEMS microfluidic chip-based viscometry technology in the world. The operating principle of this technology is well-known for its simplicity and accuracy in the field of rheology, and is described in most rheology textbooks. Utilizing this principle, VROC® technology requires a much smaller sample volume than traditional methods, and provides accurate viscosity measurements for a wide range of applications.



μVISC

The Revolutionary **Viscometer**

μVISC™,pronounced "micro visk", is powered with VROC® (Viscometer/Rheometer-On-a-Chip) technology making your routine viscosity measurement easier and more reliable; perfect for quality control

Accuracy and repeatability

Accuracy exceeds 1% of Full Scale or 2% of the reading. Repeatability is within 1%. Test liquid is fully enclosed, preventing evaporation during measurement, and thus eliminating a major source of uncertainty.

No need to clean

For routine viscosity measurement of the same family of liquids, lengthy cleaning is no longer needed. Simply load the new sample with a new pipette and run the test.

Fast results, user-friendly interface

Loading is quick and easy, and results are displayed in less than a minute for most samples. Multiple operational modes assist any user, whether beginner or advanced.

Portable

The rechargeable battery-powered system weighs only 1.5 lbs.

Specification

Accuracy	1% of Full Scale or 2% of reading, whichever is smaller	
Repeatability	1%	
Flow rate, μL/min	0.5 – 450	
Temperature range, °C	18 – 40*	
Temperature accuracy, °C	0.15	
Battery life	100 measurements per charge, battery low indicator**	
Power	8VDC	
Pipette volume	400 μL	
Available sensor cartridges	HA01-01	HB02-01
Flow channel depth, μm	50	100
Accessible shear rate range, 1/s	6.5 – 5,850	1.7 – 1,453
Viscosity range, mPa-s	0.2 – 100	60 – 5,000

Note:

- *Calibration of the sensor is recommended after 6 months. Certification service is available.*
- *Contact Rheosense for availability of sensor cartridges for testing samples with higher viscosities than indicated in specifications.*

* Contact Rheosense for applications outside this range.

** Use only the supplied adaptor.

Applications

μVISC™ can be an integral part of manufacturing and quality control for:

- biopharma
- inks
- lubricants
- coatings
- paints
- oils
- polymers

...and many more

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