

SV-10 VISCOMETER

Viscometry Revolution



The Sine-wave Vibro SV-10 Viscometer is an excellent solution for measuring the viscosity of your fluids, even foaming fluid, flowing fluid, low viscosity fluids such as sol and gel fluid, and more .

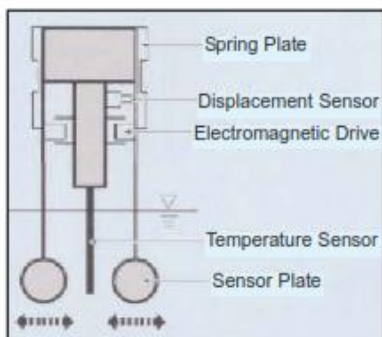
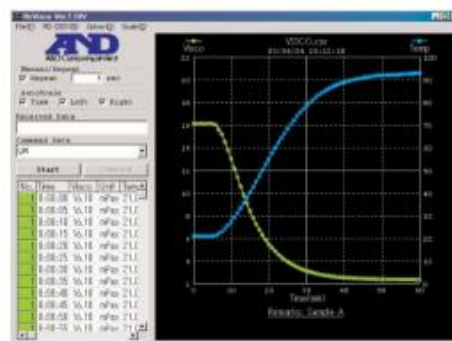
Our newly developed Tuning-Fork Vibration Method (patents pending) lets you escape the limitations of conventional viscosity measurement for both Non-Newtonian and Newtonian fluids. Even changing viscosity and temperature can be measured due to the wide measurement range from 0.3 to 10,000 mPa.s (cP), without replacing the sensor plates.

Sine-wave Vibro Viscometer SV-10 measures viscosity by detecting the driving electric current necessary to resonate the two sensor plates at constant frequency of 30Hz and amplitude of less than 1mm.

The WinCT-Viscosity, Data Collection, and Graphing software comes standard with the SV-10, letting you analyze your viscosity measurement. You can save the measurement data to your PC and easily send it to your associates via email for analysis and confirmation.

FEATURES:

- High Measurement Accuracy
- Wide Measurement Range
- Non-Newtonian Sample Measurement
- Foam Sample Measurement
- Flowing Sample Measurement
- Viscosity Calibration
- Temperature Measurement
- Vacuum Fluorescent Displays
- Sol and Gel Measurement
- Standard RS-232C Interface
- Small Sample Size
- Easy Cleaning
- Data Collection/graphing Software



MEASUREMENT PRINCIPLE FOR THE SV-10

The SV-10 has 2 thin sensor plates that are driven with electromagnetic force at the same frequency by vibrating at constant sine-wave vibration in reverse phase like a tuning fork.

The electromagnetic drive controls the vibration of the sensor plates to keep in constant amplitude. The driving electric current, which is exciting force, will be detected as the magnitude of viscosity produced between the sensor plates and the sample fluid.

The coefficient of viscosity is obtained by the correlation between the driving electric current and the magnitude of viscosity.

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SPECIFICATIONS:

| | |
|---------------------------------------|---|
| Measuring Method | Tuning Fork Vibration Method ("SV type"), Natural frequency 30 Hz |
| Viscosity Measuring Range | 0.3 mPa.s - 10,000 mPa.s |
| Repeatability | +1% (1mPas and more / Temperature range: 20-30 (68-86 F) / Non-condensing environment) |
| Operating Temperature | 10-40 (50-104 F) |
| Sample Weight | 35ml and more |
| Temperature Indicator Measuring Range | 0-100 (32-212 F) with resolution of 0.1 |
| Display | Vacuum Fluorescent Display |
| Communications | RS232C interface |
| Power Supply | 120VAC, 50/60Hz, 14VA |
| Sensor Dimensions (WDH) | 332 x 314 x 536 mm / 8.44" x 7.98" x 13.63" |
| Display Dimensions (WDH) | 238 x 132 x 170 mm / 6.04" x 3.35" x 4.32" |
| Standard Accessories | Data transmission software (WinCT-Viscosity) |
| | Resin sample containers |
| | RS232C interface cable (25P-9P) |

Specifications are subject to change for improvement without notice.

PART NUMBER

DESCRIPTION

N002-020

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