

Professional, Rotational Viscometers



Direct readout of all measurement parameters on an illuminated Liquid Crystal Display • Data on screen: • Speed selected: r.p.m. • Spindle selected: S.P. • Viscosity reading: cP (mPa-s) • Percentage of full scale: % • Sample temperature: °C • Shear rate (with special spindles): SR • Shear stress (with special spindles): SS • Determination of relative viscosity and absolute viscosity compute yield stress • Different menu options • AUTO TEST of the equipment by scanning at different speeds, with audible and visual warning if it is not operating properly • Temperature determined by PT100 probe • Viscosity reading: dynamic viscosity (cP or mPa-s) • Data logger function of the obtained results when an experiment is performed. The equipment is supplied with Windows software which can dump the data obtained to a file in Excel format (.xls) for subsequent processing • Determination of shear rate and shear stress with coaxial spindles • The viscometer and the PT100 can be calibrated by the user • Auto range function to determine the maximum viscosity with each spindle/speed combination • It can work with a micro printer or window software... • Ultra-sensitive front keyboard that allows easy input of all parameters. • "ERROR" message in the screen with sound alarm when the viscosity of the test material exceeds the full scale of the selected combination (SP/r.p.m.) • Sound alarm if the equipment is working at under 10% of selected full scale. • The viscometer is equipped with many speeds, from 0.1 to 800 r.p.m. The user can select another different speed into this margin • Safety protection against sudden rises in the power supply.

Model	Measuring Range	Fixed Speeds in R.P.M
VIS-LDV1P	2-2M cP	0.3-100
VIS-RDV1P	100-13M cP	0.3-100
VIS-HADV1P	200-26M cP	0.3-100
VIS-HBDV1P	200-104M cP	0.3-100
VIS-LDV2P	1-6M cP	0.1-200.0
VIS-RDV2P	100-40M cP	0.1-200.0
VIS-HADV2P	200-80M cP	0.1-200.0
VIS-HBDV2P	800-320M cP	0.1-200.0
VIS-LDV3P	1-6M cP	0.1-250.0
VIS-RDV3P	50-40M cP	0.1-250.0
VIS-HADV3P	100-80M cP	0.1-250.0
VIS-HBDV3P	400-320M cP	0.1-250.0

M=1,000,000 cP

VIS-79 Series, Double Cylinder Digital High Speed Viscometer



Feature:

DvGather Software is for optional • Configure RTD Temperature Probe • Stepping Motor means Accurate, reliable operation • Direct readout of all measurement parameters • Auto Range Showing • Time Function for measurement • Sound alarm at under 20% Torque • Linear calibration • Wide range power supply: 100V-240V.

Applications:

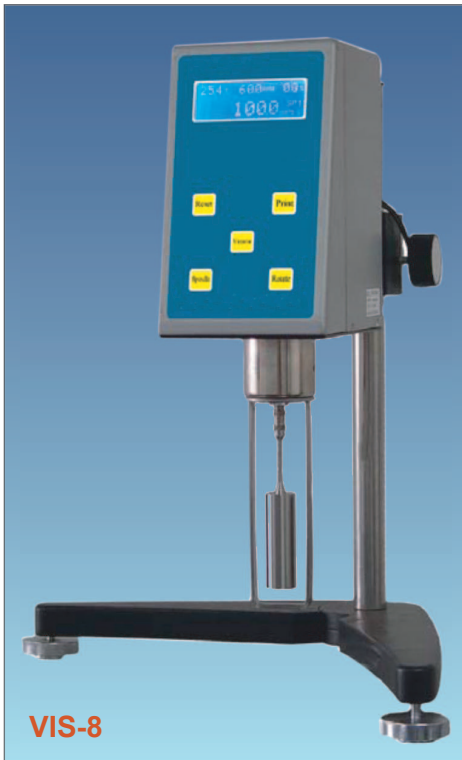
Starch Inks Latex Adhesives (Solvent base) • Polymer Solutions Oils Paints and Coatings Solvents • Cosmetisc Dairy Products Pharmaceuticals Juices, etc.

Optional Accessories:

DvGather Software • Circulating Water Bath • Standard Oils • Micro Printer.

Model	VIS-79	VIS-79A	VIS-79B	VIS-79P
Range(mPa.s)	1-1M	1-1.5M	1-7.5M	1-75M
RPM	7.5, 75, 750	5-750 Step 10RPM	1-800 Step 10RPM	1-800
Temperature	0-120°C			
Spindles	E, F, G, The three spindles are with B container for high viscosity A, B, C, D, the four spindles are with A container for low viscosity			
Accuracy	±1.0% of Range			
Repeatability	±0.5%			

VIS-8, Digital Basic Rotary Viscometers



Direct readout of all measurement parameters on an illuminated Liquid Crystal Display • Data on screen: • Speed selected: Lp.m. • Spindle selected: S.P. • Viscosity reading: cP (mPa-s) • Percentage of full scale: % • Sample temperature: °C • Temperature determined by PT100 probe • Viscosity reading: dynamic viscosity (cP or mPa-s) • The viscometer and the PT100 can be calibrated by the user • Auto range function to determine the maximum viscosity with each spindle/speed combination • It can work with a micro printer • Ultra-sensitive front keyboard that allows easy input of all parameters • "ERROR" message in the screen with sound alarm when the viscosity of the test material exceeds the full scale of the selected combination (SP/r.p.m.) • Sound alarm if the equipment is working at under 20% of selected full scale • The viscometer is equipped with many pre-sets speeds, from 0.3 to 100 r.p.m • Safety protection against sudden rises in the power supply • English language options • Direct reading in cP (mPa-s).

Accuracy	± 1% of the full scale
Resolution	Using LCP (Low Viscosity Adapter): 0.01, When viscosity is lower than 10,000 cP:1, When viscosity is equal or higher than 10,000 cP:1
Repeatability	0.5%
Temperature Range	from 0.0°C to + 100.0°C
Resolution	0.1°C
Accuracy	±0.1°C
Type of Probe	PT 100
Outputs	RS232, Micro Printer
Power	All Models are Supplied with 85/265 VAC
Net Weight	4 kg

Model	Measuring Range	Fixed Speeds in R.P.M
VIS-8	10-2,000,000 Cp	0.3,0.6,1.5,3,6,12,30,60

VIS-S1/S2/S3/AI, Digital Rotary Viscometers, Without Limits

Direct readout of all measurement parameters on an illuminated Liquid Crystal Display • Data on screen: • Speed selected: r.p.m. • Spindle selected: S.P. • Viscosity reading: cP (mPa-s) • Percentage of full scale: % • Sample temperature: °C • Temperature determined by PT100 probe • Viscosity reading: dynamic viscosity (cP or mPa-s) • The viscometer and the PT100 can be calibrated by the user • Auto range function to determine the maximum viscosity with each spindle/speed


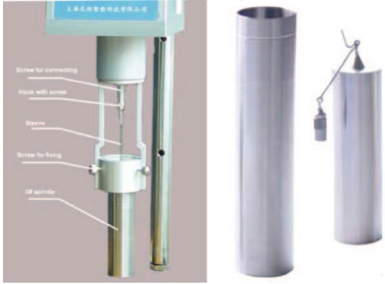






combination • It can work with a micro printer • Ultra-sensitive front keyboard that allows easy input of all parameters • "ERROR" message in the screen with sound alarm when the viscosity of the test material exceeds the full scale of the selected combination (Slvr.p.m.) • Sound alarm if the equipment is working at under 20% of selected full scale • The viscometer is equipped with many pre-sets speeds, from 0.1 to 100 r.p.m • Safety protection against sudden rises in the power supply • English language options • Direct reading in cP (mPa-s).

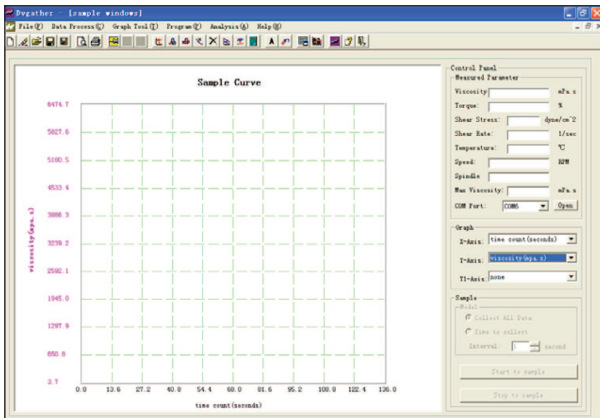
Accuracy	± 1% of the full scale
Resolution	Using LCP (Low Viscosity Adapter): 0.01, When viscosity is lower than 10,000 cP:1, When viscosity is equal or higher than 10,000 cP:1
Repeatability	0.5%
Temperature Range	from 0.0°C to + 100.0°C
Resolution	0.1°C
Accuracy	±0.1°C
Type of Probe	PT 100
Outputs	Computer interface RS232, Micro Printer
Power	All Models are Supplied with 85/265 VAC
Net Weight	4 kg

Model	Measuring Range	Fixed Speeds in R.P.M
VIS-S1	10-600,000 cP	1-60(nonpolar shift)
VIS-S2	10-6,000,000 cP	0.1-99.9
VIS-S3	10-80,000,000 cP	0.1-99.9
VIS-AI	10-1,000,000 cP	0.1-200.0

VIS Accessories

<p>Micro Printer</p> 	<p>Low Viscosity Adapter</p> 	<p>RTD Temperature Prob</p> 
<p>Time to print measure information, including temperature, rotation speed, spindle, torque, viscosity.</p>	<p>Super low viscosity adapter (0#spindle). Measure range: 1cp-20cp. Small sample size: 30ml. Material: 314 or 316</p>	<p>RTD Temperature prob. Temperature display range: 0°C-100°C</p>
<p>Small Sample Adapter</p> 	<p>Thermosel</p> 	<p>Circulating Water Bath (Model: DC-0506)</p> 
<p>Small sample adapter. Sample volume only from 5ml to 20ml. SC21, SC27, SC28, SC29, four spindles is configured. Material: 304 or 316</p>	<p>Thermosel for elevated temperature testing. The temperature can be used from environment temperature +10°C to 250°C. SC21, SC27, SC28, SC29, four spindles is configured.</p>	<p>Specifications: Temperature range: -5°C~+95°C Temperature stability: ±0.1°C Heater wattage: 300W Flowrate: 4L/min Compressor size: 100W Interior size(mm): 250W x 200D x 150H Bath opening(mm): 180W x 140D Applicable ambient: 5°C~35°C Power: AC220V±10%, 50Hz</p>

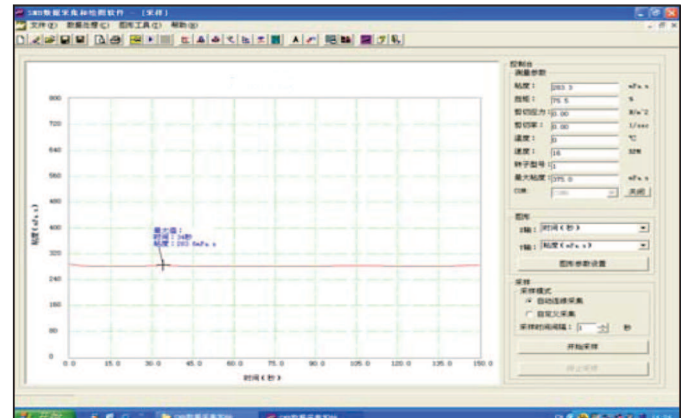
PRO Series Gather Software



PRO Series viscometer can select PRO gather software to gather data, save data, compare many history curves and download custom program to viscometer, analysis curve to compute Yield stress, plastic viscosity etc. Powerful scripting language provides for simple to complex data collection programs. Provides looping functions for repetitive tests. Automatic calculation of yield stress (bingham plastic, casson, power law, consistency index)

MRC.VER.02-11.10

VIS-S1/S2/S3/AI Gather Software



Viscometer can select Gather software to automate collect data, save data, compare many history curve. Data can be saved as a file or exported to excel format.