



Cole-Parmer®

COLE-PARMER® ROTATIONAL VISCOMETERS

ACCURATE
MEASUREMENTS
AT THE PUSH OF
A BUTTON



Cole-Parmer® Rotational Viscometers

BASIC VISCOMETERS

- 4-line display
- Keypad control
- Under/over range alarm
- Auto-test functionality test
- User calibration to a known standard
- 10 language options
- Universal power supply
- Include carrying case that accommodates entire system, including stand

These easy-to-use basic units provide fast and accurate viscosity readings at the touch of a button. Monitor selected speed, selected spindle, viscosity, and % of full scale on the four-line vacuum fluorescent display.

Units include six 316 stainless steel spindles (four on model 98965-40), spindle protector, stand, carrying case, and universal power supply.



BASIC VISCOMETERS WITH DATA LOGGING

Same great features as the basic viscometers above, plus:

- USB interface for data analysis on your PC
- Internal memory—store up to 10 programs
- Calculation and display of kinematic viscosity (cSt)
- 5-line display

Data logging units include software for download of data through the USB to your PC in Excel® format for analysis. Unit allows user to save up to 10 programs for easy recall. Display provides readout of speed, spindle, viscosity, % torque, shear rate, and shear stress. Enter the sample density, and the unit calculates and displays kinematic viscosity as well.

Data logging units also include: data logger software and USB cable.





PROGRAMMABLE VISCOMETERS WITH TEMPERATURE PROBE

Same great features as the advanced viscometers with temperature probe, plus:

- Highest speed range—up to 250 rpm
- 2600 speed selections
- Included software allows complete control through PC
- Analyze data through curves, graphs, and database references

Easily control and monitor results with these programmable viscometers. Included software provides instantaneous viewing of flow curves, plotting of up to four data sets at the same time, and graphical presentation of data.

Programmable units also include: control software.

ADVANCED VISCOMETERS WITH TEMPERATURE PROBE

Same great features as the basic viscometers with data logging, plus:

- Three times the speed selection
- Double the speed range
- Temperature reading via RTD probe
- Stores over 10,000 data points

Units monitor and display the temperature with the included RTD temperature probe. Store over 10,000 data points within the viscometer, then download and analyze the data via the included USB through Excel®.

Advanced units also include: RTD temperature probe.





FREE TECHNICAL APPLICATIONS ASSISTANCE!

In the US

625 E. Bunker Court
Vernon Hills, IL 60061
Call toll-free 800-323-4340
Phone: 847-549-7600
Fax: 847-247-2929
www.coleparmer.com

In Canada

Call toll-free 800-363-5900
Phone: 514-355-6100
Fax: 514-355-7119
www.coleparmer.ca

In the United Kingdom

Free phone: 0500-345-300
Phone: 020-8574-7556
Fax: 020-8574-7543
www.coleparmer.co.uk

In India

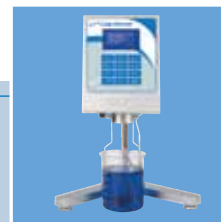
Phone: 91-22-6716-2222
Fax: 91-22-6716-2211
www.coleparmer.in

International customers

Call 847-549-7600 to reach our International Sales Department or contact your local dealer.

APPLICATIONS

- Adhesives
- Biofuels
- Chemicals
- Food
- Paints
- Petroleum products
- Pharmaceuticals



PERFORMANCE SPECIFICATIONS

- Language options: English, French, German, Italian, Japanese, Portuguese, Spanish, Dutch, Polish, and Catalan

Accuracy: ±1% full-scale

Resolution: <10,000 cp: 0.1 cp; ≥10,000 cp: 1 cp

Reproducibility: ±0.2%

Temperature probe (indicated models):

100 Ω Pt RTD; 32 to 212°F (0 to 100°C)

Power: 100 to 240 VAC, 50/60 Hz

Display

Models 98965-40 through -42:

4-line display

Models 98965-43 through -51:

5-line display



Catalog number	Viscosity range	Rotational speed range	Number of selectable speeds	Output
Basic viscometers				
ML-98965-40	20 to 2,000,000 cp (low)	0.3 to 100 rpm	18	None
ML-98965-41	100 to 13,000,000 cp (medium)			
ML-98965-42	200 to 106,000,000 cp (high)			
Basic viscometers with data logging software and USB cable				
ML-98965-43	20 to 2,000,000 cp (low)	0.3 to 100 rpm	18	USB
ML-98965-44	100 to 13,000,000 cp (medium)			
ML-98965-45	200 to 106,000,000 cp (high)			
Advanced viscometers with temperature probe, data logging software, and USB cable				
ML-98965-46	20 to 6,000,000 cp (low)	0.01 to 200 rpm	54	USB
ML-98965-47	100 to 40,000,000 cp (medium)			
ML-98965-48	200 to 106,000,000 cp (high)			
Programmable viscometers with temperature probe, control software, data logging software, and USB cable				
ML-98965-49	20 to 6,000,000 cp (low)	0.01 to 250 rpm	2600	USB
ML-98965-50	100 to 40,000,000 cp (medium)			
ML-98965-51	200 to 106,000,000 cp (high)			

What's included:

316 stainless steel spindles (four spindles for the low range and six for the other ranges), spindle protector, stand, carrying case, and universal power supply. Models 98965-43 through -48 also include data logging software and USB cable. Models 98965-49 through -51 also include control software, data logging software, and USB cable.