



Leading viscosimetry technology

ROTATIONAL VISCOMETERS

Smart series

Indispensable in QC and R&D laboratories.

2 YEARS WARRANTY

Standard Delivery

Viscometer head with serial number / Stand, 3 levelling adjustment for stand / Boss head / Standard spindles / Spindle protector / Spindle rack / PT100 probe / Power supply cable / Datalogger software in a CD / USB cable / Carrying case / Calibration Certificate / Operating manual

NOTE: All parts (including the viscometer stand) find room in the Carrying case.

Extra Accessories

APM (Small Sample Adapter) / LCP (Low Viscosity Adapters) / Haldal unit (High Viscosity Adapter) / Silicon Standard Oils / Thermostatic Bath / Universal adapter for all accesories such as Brookfield (Optional) / PPR Plugging System (Optional)

NOTE: The material of the accessories including the temperature probe can be changed under customer specification (High Temperature Resistance).

Alpha Series



Expert Series



Premium Series



TOUCH KEYBOARD
Latest keyboarding technology, comfortable and easy to handle (6 keys)

PROGRAM FEATURES
Time to Torque
Time to Stop

DATA DISPLAYED
Selected Speed
Selected Spindle
Viscosity readings (cP or mPa-s or cSt)
Percentage of Full Scale Range (%)
Sample Temperature (Optional, °C or °F)
Shear rate (with coaxial spindles) (s-1)
Shear Stress (with coaxial spindles) (N/m²)
Density (introduced by the user)(g/cm³)

TEMPERATURE READING BY PT100

UNIVERSAL ADAPTER
All accesories such as Brookfield (Optional)

GRAPHIC DISPLAY
Provides huge range of graphical options

10 WORKING MEMORIES
Set up the unit and get it ready to be used every day choosing the memory you need

VISCOSITY READINGS
Absolute viscosity (cP or mPa-s)
Apparent Viscosity (cP or mPa-s)
Kinematic viscosity (cSt, mm²/sec)
(Density introduced by the user)

USB INTERFACE
Faster transfer data to the computer

DATALOGGER SOFTWARE INCLUDED
USB allows data transfer to a Excel format



Main Features

- > Touch key board 6 keys.
- > Direct readout on a graphic display.
- > Data displayed:

Selected speed	r.p.m.
Selected spindle	SP
Viscosity reading	cP (mPa·s) or cSt
Percentage of full scale	%
Sample temperature	°C or °F (Optional)
Shear Rate (with coaxial spindles)	SR (s ⁻¹)
Shear Stress (with coaxial spindles)	SS (N/m ²)
Density (introduced by the user)	g/cm ³
- > Viscosity reading: dynamic viscosity (cP or mPa·s) or kinematics viscosity (cSt).
- > Unit converter SI to CGS.
- > Program features:
 - Time to torque: target torque pre-setting device.
 - Time to stop: target time pre-setting device.
 - 10 working memories.
- > AUTO-TEST with sound and visual malfunction alarm.
- > AUTO-RANGE function.
- > Temperature reading by PT100
- > User-enabled viscosity and temperature (optional) calibration.
- > 10 language options.
- > Interface: USB.
- > Datalogger Software: USB allows data transfer to a PC Excel format.

Standard delivery: The equipment is supplied complete with standard spindles (4 spindles for L model, and 6 spindles for R and H models), viscometer stand and spindle protector, carrying case, USB cable, Datalogger Software and PT100 probe

Code	Model	Measuring Range (cP)	Speed (r.p.m.)	Number of speeds
V210003	SMART L	20 - 2.000.000	0.3 - 100	18
V210002	SMART R	100 - 13.000.000	0.3 - 100	18
V210001	SMART H	200 - 106.000.000	0.3 - 100	18

Technical File

- > Precision: ± 1% of full scale
- > Resolution:
 - With low viscosity adapter: 0.01
 - For lower than 10.000 viscosity cP: 0.1
 - For viscosity equal to or above 10.000 cP: 1
- > Repeatability: 0.2%
- > Thermometer features:
 - Temperature margins: 0°C to +100°C
 - 32°F to 212.0 °F

Resolution: 0.1°C / 0.1722 °F
 Precision: +/- 0.1 °C
 Type of probe: PT100
 > Supplied at 100-240 VAC, 50/60 Hz

Spindles

AlSi 316 stainless steel spindles, easily identified by number and letter when changed according to range of viscosity.

These are the standards our units follow:

- BS: 6075, 5350
- ISO: 2555, 1652
- ASTM: 115, 789, 1076, 1084, 1286, 1417, 1439, 1638, 1824, 2196, 2336, 2364, 2393, 2556, 2669, 2849, 2983, 2994, 3232, 3236, 3716



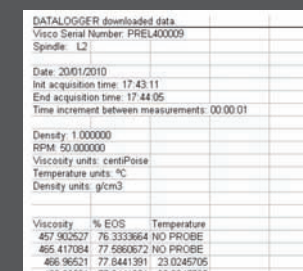
Rear view to the viscometer showing the new USB interface that provides a faster transfer of data to the computer.



Easy identification, on your first look at the equipment, you identify it.



Front view of the viscometer, touch keyboard with 6 keys and graphic display.



DATALOGGER SOFTWARE

Let the viscometer gather measurement data and store them in its internal memory (set these options when configuring a measurement with the keypad). More than 10,000 data points can thus be stored inside the viscometer. Then use this software to export the stored data as Microsoft EXCEL format. (No computer skills needed).



Products for Research, Analysis and Quality Control

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