

Leading viscosimetry technology



## ROTATIONAL VISCOMETERS

# Premium series

Viscometer monitored by our Fungilab Data Boss software, offer a wide and unique range of rheological applications.

**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) / Heldal unit (High Viscosity Adapter) / Silicon Standard Oils / Thermostatic Bath / Universal adapter for all accessories 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



Smart Series



Expert Series



### TOUCH KEYBOARD

Latest keyboarding technology, comfortable and easy to handle (12 Keys)

### PROGRAM FEATURES

Time to torque  
Time to stop  
10 working memories  
Customizable option (Speeds)  
Programmable: Multistep/Ramp  
Unit Converter (IS or CGS)

### SPECIAL FEATURES

Graphic mode allows to analyze & visualize characteristics of the flow curves / 2600 Speeds to measure wide range of viscosity samples / Bidirectional USB interface

### USB INTERFACE

Faster transfer data to the computer

### AUTO-TEST

It checks the internal function in order to make the unit ready to use

### UNIVERSAL ADAPTER

All accessories such as Brookfield (Optional)



### GRAPHIC DISPLAY

Provides huge range of graphical options

### VISCOSITY READINGS

Absolute viscosity (cP or mPa·s)  
Apparent Viscosity (cP or mPa·s)  
Kinematic viscosity (cSt, mm<sup>2</sup>/sec)  
(Density introduced by the user)

### 10 WORKING MEMORIES

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

### DATA DISPLAYED

Selected Speed  
Selected Spindle  
Viscosity readings (cP or mPa·s or cSt)  
Percentage of Full Scale Range (%)  
Sample Temperature (°C or °F)  
Shear rate (with coaxial spindles) (s<sup>-1</sup>)  
Shear Stress (with coaxial spindles) (N/m<sup>2</sup>)  
Density (introduced by the user) (g/cm<sup>3</sup>)

### DATALOGGER SOFTWARE INCLUDED

USB allows data transfer to a Excel format

## Main Features

- > Touch key board 12 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
Shear Rate (with coaxial spindles)	SR (s-1)
Shear Stress (with coaxial spindles)	SS (N/m <sup>2</sup> )
Density (introduced by the user)	g/cm <sup>3</sup>
- > Step Program Status  
Analyze & visual characteristics (flow curves)
- > Viscosity reading: dynamic viscosity (cP or mPa·s) or kinematics viscosity (cSt).
- > Program features:
  - Time to torque: target torque pre-setting device.
  - Time to stop: target time pre-setting device.
  - 10 working memories.
  - Customizable Options.
  - Programmable.
  - Multistep.
  - Ramp.
- > AUTO-TEST with sound and visual malfunction alarm.
- > AUTO-RANGE function.
- > Temperature reading by PT100.
- > User-enabled viscosity and temperature calibration.
- > 10 language options.

Standard delivery: The equipment is supplied complete with standard spindles (4 spindles for L model, and 6 spindles for R and H models),

Code	Model	Measuring Range (cP)	Speed (r.p.m.)	Number of speeds
V400003	PREMIUM L	20 - 6.000.000	0.01 - 250	2,600
V400002	PREMIUM R	100 - 40.000.000	0.01 - 250	2,600
V400001	PREMIUM H	200 - 106.000.000	0.01 - 250	2,600

viscometer stand and spindle protector, carrying case, USB cable and Datalogger Software.

## 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

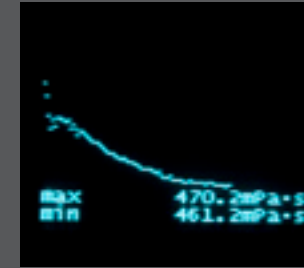
- Resolution: 0.1°C / 0.1722 °F
- Precision: +/- 0.1 °C
- Type of probe: PT100
- > Supplied at 100-240 VAC, 50/60 Hz

## Spindles

AISI 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



See in detail the new graphic display showing the flow curve using the graphic mode program.



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



See the program options in detail:

- > TTT & TTS
- > Speed settings
- > Multistep
- > Ramp



## FUNGILAB DATA BOSS

Provides instantaneous viscosity flows curves. Up to four data sets may be plotted simultaneously. Math modelling for yield stress calculations (Bingham Plastic, Casson, Power Law, IPC Paste analysis). More than 12 viscosity plots can be configured. Offers very easy graphic presentation of data and stores the data in a Microsoft Access database.