

2012

 **Fungilab**

Leading Viscosity Technology

ROTATIONAL VISCOMETERS

Support material



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ALPHA SERIES

Low budget and easy to use



What Is It?

Rotational viscometer ALPHA SERIES allows fast and accurate viscosity readings.

Original Fungilab viscometer for essential viscosity measurements, digital and easy to use.

Target Customers

- Oil industry, petrol industry, inks and solvents, paint, food, detergents, cosmetic, pharma and chemical industries
- Low budget and entry level customers.
- Newtonian liquids users.
- Users that do not need to control the temperature with the viscometer.

Key Features and Benefits

1. Digital viscosity reading in cP (mPa·s). Information showed on the screen
2. Data displayed on the screen: selected spindle / selected speed (rpm) / % of full scale / viscosity reading cP (mPa·s). Easy to read and to obtain viscosity
3. Reading obtained: absolute and relative viscosity. Automatic conversion.
4. Auto-range function
5. Auto-test function with sound and visual alarm
6. Can include: Push Plug and Release spindle coupling for easy lock of the spindles. (PPR System, to be specified in the PO).
7. Standard delivery: Regular spindles included in the standard delivery / manual /stand and spindle protector.
8. Modern and user friendly design
9. 2 Years warranty.

Applications

- All industries with fluid manufacturing used for quality control. Viscosity is one of the parameters required to obtain the international compliance of standards and authority approvals.
- Easy to use for an entry level or low budget customers who needs to measure viscosity
- Product development/improvement.
- For Newtonian liquids, simple experiments (do not record / no programming features / no use of any program to download data to computer).

Competing Products

- DV-E from Brookfield.
- Dial reading viscometer from Brookfield

Possible Customer Questions and Answers Support Materials

See Document

Demos

Demo units are available with Fungilab's leasing: 7 days free trial of units for your customers, you need to follow the steps set in our lease plan. (See list plan document)

SMART SERIES

Indispensable in QC and R&D laboratories



What Is It?

Rotational viscometer SMART SERIES allows accurate viscosity readings.

Original Fungilab viscometer for essential viscosity measurements, digital and easy to use.

Target Customers

- Oil industry, petrol industry, inks and solvents, paint, food, detergents, cosmetic, pharma and chemical industries
- Basic QC and R&D customers.
- Users that need to control temperature and save data on the computer.

Key Features and Benefits

1. Digital viscosity reading in cP (mPa·s). Information showed on the screen
2. Data displayed on the screen: selected spindle / selected speed (rpm) / % of full scale / viscosity reading cP (mPa·s)/ shear rate/shear stress (with coaxial accessories). Easy to read and to obtain viscosity
3. Graphic display, touch keyboard 6 keys.
4. Reading obtained: absolute and relative viscosity. Automatic conversion.
5. Auto-range function
6. Auto-test function with sound and visual alarm
7. Can include: Push Plug and Release spindle coupling for easy lock of the spindles. (PPR System, to be specified in the PO) and temperature probe.
8. Standard delivery: Regular spindles included in the standard delivery / manual /stand and spindle protector.
9. Modern and user friendly design
10. 2 Years warranty.

Applications

- All industries with fluid manufacturing used for quality control. Viscosity is one of the parameters required to obtain the international compliance of standards and authority approvals.
- R&D departments
- Users who need to do record and save data and plot for further analysis.
- Product development/improvement.
- Could be used with Newtonian and non Newtonian fluids.
- Optional temperature probes allow to control and record temperature, us

Competing Products

- DVI- Prime from Brookfield.

Possible Customer Questions and Answers

- Support Materials
- See Document

Demos

Demo units are available with Fungilab's leasing: 7 days free trial of units for your customers, you need to follow the steps set in our lease plan. (See list plan document)

EXPERT SERIES

Add essential performance and rheological features



What Is It?

Rotational viscometer EXPERT SERIES add essential performance to determine viscosity and other rheological features of homogenous samples.

Original Fungilab viscometer for expert measurements, digital and easy to program-

Target Customers

- Oil industry, petrol industry, inks and solvents, paint, food, detergents, cosmetic, pharma and chemical industries
- Advanced viscometer ideal for non Newtonian users
- Users that need rheological information and need programming features

Key Features and Benefits

1. Digital viscosity reading in cP (mPa·s). Information showed on the screen
2. Data displayed on the screen: selected spindle / selected speed (rpm) / % of full scale / viscosity reading cP (mPa·s)/ shear rate/shear stress (with coaxial accessories. Easy to read and to obtain viscosity
3. Graphic display, touch keyboard 12 keys.
4. Reading obtained: absolute and relative viscosity. Automatic conversion.
5. Auto-range function
6. Auto-test function with sound and visual alarm
7. Can include: Push Plug and Release spindle coupling for easy lock of the spindles. (PPR System, to be specified in the PO)
8. Temperature control included.
9. Programming options; time to stop, time to torque, customizable options, Step, multistep and ramp.
10. Standard delivery: Regular spindles included in the standard delivery / manual /stand and spindle protector.
11. 54 speeds: from 0.01 to 200 rpm
12. Modern design, intuitive configuration.
13. 2 Years warranty.

Applications

- R&D departments
- Product development/improvement.
- Could be used with Newtonian and non Newtonian fluids.

Competing Products

- DVII- Pro from Brookfield.

Possible Customer Questions and Answers Support Materials

[See Document](#)

Demos

Demo units are available with Fungilab's leasing: 7 days free trial of units for your customers, you need to follow the steps set in our lease plan. (See list plan document)

PREMIUM SERIES

Wider and unique range of rheological applications



What Is It?

Rotational viscometer PREMIUM SERIES, monitored by our DATA BOSS software offer a wider and unique range of rheological applications.

Original Fungilab viscometer for expert measurements, digital and easy to program-

Target Customers

- Oil industry, petrol industry, inks and solvents, paint, food, detergents, cosmetic, pharma and chemical industries
- Advanced viscometer monitored by FUNGILAB DATA BOSS for costumers with need of processing wide range of rheological parameters.
- Users that need rheological information and need programming features combined with powerful software to study viscosity behavior of fluids.

Key Features and Benefits

1. Digital viscosity reading in cP (mPa·s). Information showed on the screen
2. Data displayed on the screen: selected spindle / selected speed (rpm) / % of full scale / viscosity reading cP (mPas·s)/ shear rate/shear stress (with coaxial accessories). Easy to read and to obtain viscosity
3. Graphic display, touch keyboard 12 keys
4. Can display graphics at real time
5. Bidirectional unit, with DATA BOSS software
6. Reading obtained: absolute and relative viscosity. Automatic conversion
7. Auto-range function
8. Auto-test functions with sound and visual alarm.
9. Can include: Push Plug and Release spindle coupling for easy lock of the spindles. (PPR System, to be specified in the PO)
10. Temperature control included
11. Programming options; time to stop, time to torque, customizable options, Step, multistep and ramp
12. Standard delivery: Regular spindles included in the standard delivery / manual /stand and spindle protector
13. 2.600 speeds from 0,01 to 250 rpm
14. Modern design, intuitive configuration
15. 2 Years warranty

Applications

- R&D departments
- Users who need to do in-depth rheological analysis
- Product development/improvement.
- Could be used with Newtonian and non Newtonian

Competing Products

- DVIII- Ultra from Brookfield.

Possible Customer Questions and Answers Support Materials

See Document

Demos

Demo units are available with Fungilab's leasing: 7 days free trial of units for your customers, you need to follow the steps set in our lease plan. (See list plan document)

Accessories

Make the most your viscometer

APM or APM/B: Small Sample Adapter with/without circulation jacket..

Used when the volume sample is small or limited, volume from 6.7 mL (depending on spindle)

APM Spindles not included



LCP or LCP/B (for R and L models): Low viscosity adapter with/without circulation jacket.

Used with viscosities from 1 cP to , consistency of water. (volume sample 16 mL)



Heldal unit

Helicoidal unit to measure viscosity of non-flowing samples (for R and H models), like yogurt or peanut butter.



Standard Oils for calibration, highly recommended to purchase at least one per unit. It is the easiest and quickest way to check the viscometer performance



Thermostatic bath: Eagle B150 series to thermostate the samples.

Consult our whole range of different bath temperatures.

	ALPHA	SMART	EXPERT	PREMIUM
Fluid	Recommended for Newtonian fluids	All types	All types	All types
Description	Fast and accurate viscosity readings. Easy to use and low budget	Allows temperature control and data register. Indispensable on QC and R&D laboratories	Add essential performances to determine viscosity and other rheological features	Viscometer monitored by our DataBoss software, offers a wide range and unique range of rheological applications
LCD Display	✓ alphanumeric	✓ graphic display	✓ graphic display	✓ graphic display
Touch keyboard	✗	6 keys touch keyboard	12 keys touch keyboard	12 keys touch keyboard
Temperature Probe PT100	✗	Optional	✓	✓
Temperature Settings	✗	°C/°F (optional)	°C/°F	°C/°F
Dataloger Software	✗	✓	✓	✓
DataBoss Software	✗	✗	✗	Under request
Bidirectional Unit	✗	✗	✗	✓
10 Languages	✓	✓	✓	✓
Working memories	✗	9	9	9
Speeds	18	18	54	2600
Speed settings	✗	✗	Customizable by user	Customizable by user
RPM	0.3-100	0.3-100	0.01-200	0.01-250
Data displayed	Speed Spindle Viscosity (cP or mPa) % of torque	Speed Spindle Viscosity (cP or mPa) % of torque Shear rate (w.coaxial spindles)(s ⁻¹) Shear stress (with coaxial spindles)(N/m ²) Density (g/cm ³)	Speed Spindle Viscosity (cP or mPa) % of torque Shear rate (w.coaxial spindles)(s ⁻¹) Shear stress (with coaxial spindles)(N/m ²) Density (g/cm ³)	S Speed Spindle Viscosity (cP or mPa) % of torque Shear rate (w.coaxial spindles)(s ⁻¹) Shear stress (with coaxial spindles)(N/m ²) Density (g/cm ³)
Density cSt	✗	By default and introduced by user	By default and introduced by user	By default and introduced by user
Viscosity readings	Absolute viscosity: cP or mPa.s Apparent viscosity: cP or mPa.s	Absolute viscosity: cP or mPa.s Apparent viscosity: cP or mPa.s Kinematic viscosity cSt r mm ² /sec	Absolute viscosity: cP or mPa.s Apparent viscosity: cP or mPa.s Kinematic viscosity cSt r mm ² /sec	Absolute viscosity: cP or mPa.s Apparent viscosity: cP or mPa.s Kinematic viscosity cSt r mm ² /sec
Time Settings	✗	✓	✓	✓
Program settings	✗	Time to torque/Time to stop	Time to torque/Time to stop Step/ Multistep/ Ramp	Time to torque/Time to stop Step/ Multistep/ Ramp
Competing products	DVE and Dial reading	DVI Prime	DVII Pro	DVIII Ultra

Standards

Fungilabs viscometers are totally digital and designed to be easy to use instruments for all kind of users.

All viscometers have 2 years warranty.

The standards our units follow are:

- BS: 6075, 5350
- ISO: 2555, 1652
- ASTM: 115, 789, 1076, 1084, 1286, 1417, 1439, 1638, 1824, 2196, 2336, 2364, 2669, 2849, 2883, 2994, 3232, 3236, 3716

Measuring range

L MODELS	LOW VISCOSITY RANGE 20-2.000.000cP	Adhesives, biological fluids, chemicals, cosmetics, dairy products, hot waxes, Ink, juices, latex, oils, paints and coatings, pharmaceuticals, photo resist, polymer solution, rubber solutions and solvents
R MODELS	MEDIUM VISCOSITY RANGE 100- 13.000.000 cP	Adhesives, asphalt, ceramic slurries, creams, dairy products, food products, gums, inks (screen printing), organisol, paints, paper coating, paper pulp, platisols, starches, surface coating, toothpaste and varnish
H MODELS	HIGH VISCOSITY RANGE 200- 106.000.000 cp	Asphalt, caulking compounds, epoxides, chocolate, gels, inks (offset), molasses, pastes, peanut butter, putty, roofing compounds, sealants, sheet molding compounds, tars.

FUNGILAB ENQUIRE FORM

DATE:	INTERNAL REF:
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COMPANY:	Name:
	Title:
	Email:
	Phone:

PRODUCT DESCRIPTION	
Sample	
Description (if necessary)	
Sample volume	
Expected viscosity	
Working temperature	
Other viscosity ranges	
PC registration	
Observations	

Key Information

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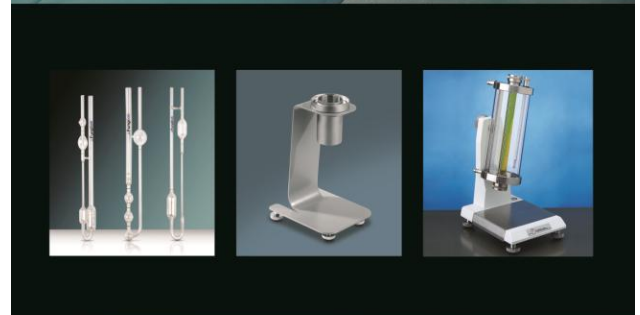
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