LABTRON

Viscometer LVM-A42

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Viscometer LVM-A42 a floor standing rotational digital viscometer used to measure viscosity of liquid sample, semi-solid sample at specified shear rates. Adapted with new ARM technology, built-in Linus system, offers R2 to R7 Rotors (6 standard rotors), viscosity range 200 to 26 M (mPa.s) and 0.3 to 100 rpm rotation speed range (total of 998 speed options). Features a 5-inch color touch screen with visual display of variety of parameters and working conditions to guide users through test creation and data gathering for fast and easy viscosity measurements. It offers several advantages, like measuring multiple parameters, rich display content, convenient operation, intuitive reading, high measuring precision, stable rotational speed, strong anti-interference performance, showing the curve of shear rate, and viscosity, and so on. Each viscosity measuring range is automatically calibrated by a computer with high precision, and less errors.

Features

- Adapted with new ARM technology, built-in Linus system
- Stepless debugging (speed regulation), measures high viscosity samples
- 5-inch touch screen with variety of parameters, working conditions: dynamic and Kinetic viscosity, shear rate, shear stress, temperature measurement, and visual display (graphic of curve, range overflow alarm, automatic scanning, date, time etc.)
- Buil-in 30 group program measurement, real time display of viscosity curves, with data printing
- High precision automatic measurement, range calibration by computer
- Equipped with timing measurement function, convenient adjustment of test paramters
- Standard USB interace, insertion of U disk to copy data directly
- Optional Pt100 temeprature probe with wide temperature range from-20 to 300°C

Application

Viscometer also known as rheometer is a measuring instrument used to determine a fluid's internal flow resistance or viscosity. It finds application in adhesive, latex, paint, cosmetics, ink, pulp, food, oil, starch, solvent, biochemical products and other industries.

Specifications

Model	LVM-A42
Rotational speed range	0.3 to 100 rpm
Standard Rotor	Rotor R2 to R7 (6, Standard), R1 (Apolegamy)
Viscosity measurement range	Rotor R2 to R7:200 to 26 M (mPa.s)
Standard Rotor Sample Dosage	Rotor R1 to R7: 500 ml
Measurement error	± 1 %
Repetitive error	± 0.5 %
Display	5 inch color touch screen
Standard configuration	Shows shear response, timing function
Real time display viscosity curve	Time-viscosity curve (standard) Temperature-viscosity curve (optional temperature probe)
Kinematic viscosity	Density of samples to be entered
Temperature measurement function	Standard temperature probe interface
Automatic scanning function	Automatically scan and recommend the preferred combination of rotor and rotation speed
Maximum measurement range	Automatic display of selected combinations of rotor and rotation speed. Measurable viscosity range
Memory	Built-in 30 program groups (includes rotor speed, temperature, time, etc.)
Put a seal on	Data, curve can be printed (standard print interface, need to buy printer)
Data output interface	USB, insertion of U disk, Copying data , RS232, Connection to Computer
Power Supply	AC 110V/50 HZ, AC220V/50Hz
Dimension	300 × 300 × 450 mm
Net Weight	6 kg

Optional Rotors Details

Optional Rotors	Enhanced ultra-low viscosity adapter ULR, Small sample adapters (Rotor 21, 27, 28, 29)
Optional Rotor Viscosity Measurement Range	URL: 12.8 to 1 K
	Rotor 21: 100 to 333 K
	Rotor 27: 500 to 1.7 K
	Rotor 28: 1K to 3.3 M
	Rotor 29: 2K to 6.6 M
Optional Rotor Sample Dosage	URL: 21 ml, Rotor 21: 7.8 ml, Rotor 27: 11.3ml, Rotor 28: 12.6 ml, Rotor 29: 11.5 ml