Viscosity

Rotational Viscometers

For rapid, precise, relative or absolute, viscosity measurements in Newtonian and non-Newtonian fluids. Comprises drive module and set of spindles for measuring ranges as indicated.

- Choice of model:
 - Alpha series: with backlit, alphanumeric LCD, indicating speed, spindle selected, viscosity in cP (mPas) and % of scale. Spindle speed range 0.3 to 100rpm in 18 steps
 - Smart series: as Alpha series, but additionally with alternative display of viscosity in cSt, sample temperature (using a built-in Pt100 sensor) in °C or °F, shear rate (s-¹) and shear stress (N/m⁻²) using accessory, coaxial spindles and density in g/cm³ (entered by the user). Also features 10 programme memory, datalogging/downloading software and USB interface. Spindle speed range 0.3 to 100rpm in 18 steps. Temperature range 0 to 100°C x 0.1°C (32 to 212.0°F)
 - Expert series: as Smart series, but additionally with programmes for time to torque with target torque pre-setting, time to stop with target time pre-setting, customisation of programmes, multistep and ramp functions. Programming via touch-key numerical keypad. Spindle speed range 0.01 to 2000rpm in 54 steps. Temperature range 0 to 100°C x 0.1°C (32 to 212.0°F)
- Auto-test function checks the instrument whenever it is switched on. Audio-visual alarms indicate any malfunction
- Choice of units: SI or CGS
- Calibration function allows recalibration by the user
- Choice of 10 display languages

Model	Alpha L	Alpha R	Alpha H
	Smart L	Smart R	Smart H
	Expert L	Expert R	Expert H
Measuring range, cP	20 to 2,000,000	100 to 13,000,000	200 to 106,000,000
Resolution, cP	0.01*/0.1 (viscosities <	10,000cP), 1 (viscosities 1	0,000cP) — all models
Repeatability	0.2% of full scale — a	II models	
Overall	590 x 440 x 300mm L	x W x H — all models	
Weight	13kg — all models		
*Using low viscosity adapter and spindle			

*Using low viscosity adapter and spindle.

Rational Viscometers

As described. Supplied with a set of standard spindles, levelling stand and spindle protector. Smart and Expert series models are additionally supplied with carrying case, USB cable and datalogging software for operation on a personal computer (not supplied). For 100-240V 50/60Hz single phase supplies.

VC820-17	Alpha L
VC820-22	Alpha R
VC820-37	Alpha H
VC820-47	Smart L
VC820-57	Smart R
VC820-67	Smart H
VC820-72	Expert L
VC820-78	Expert R
VC820-83	Expert H

Spare and Accessory Spindles

Interchangeable spindles in AISI 316 stainless steel.

VC822-03	Spare spindle set for -L models
VC822-06	Spare spindle set for -R and -H models
VC822-10	LCP adapter (Low viscosity adapter) and spindle
VC822-17	Spare Pt100 temperature probe for Smart and Expert series using standard spindles
VC822-19	Accessory Pt100 temp. probe for Smart and Expert series using low viscosity adapter and spindle VC822-10
VC822-25	APM/B sample adapter (8 to 13ml) for shear rate and shear stress measurements, with spindles



VC820-17 to VC820-37 in use



VC820-47 to VC820-67 in use



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