Features & Benefits.

The Merlin VR is designed for performing routine rheological tests, from quick single-point checks to complex rheological evaluations. The Merlin VR is ideal for investigating the mixing and stirring behavior of emulsions and dispersions as well as performing conventional flow and viscosity curves.

The Merlin VR includes innovative features such as:

> Rotational Viscometer / Rheometer with integrated an temperature controller for isothermal & Gradient temperature control

> The MICRA Windows research software

> Wide speed and torque ranges

> Accurate adjustable gap mechanism

> Precision torque measurement

> Automatic user calibration

> Quick capture / release tools

> Membrane keypad with 16 keys

> Direct readout LCD

Data Displayed:

Selected Speed	RPM / S^{-1}
Selected system	CP/PP/CC
Viscosity reading	cP / mPa.s
Torque	mNm / %FS
Sample Temperature	0.01 ºC
Shear Rate	S^{-1}
Shear Stress	Pa. (N/m²)

Specifications

> Minimum Viscosity	1cP (mPa.s)*
> Maximum Viscosity	100M cP (mPa.s)*
> Speed	0.1 to 2000 ** 1/min
> Angular Velocity	0.01 to 200 rad/s
> Torque	0.001 to 20mNm
> Shear Stress	System Dependent
> Shear Rate	System Dependent
> Temperature Range	-10 to +120ºC
> Temperature Resolution	0.01ºC
>Temperature control	+/- 0.1ºC
> User selectable speeds	20,000
> Measuring systems	Cone & Plate Parallel Plate Concentric Cylinders
> Dimensions	180 x 520 x 340 mm
> Weight	5 Kg

• Range depends on measuring system used.

For more information please visit.

www.rheosys.com

Technical File

> Precision	± 1% of Full Scale
> Torque Resolution	< 0.1uNm
> Viscosity Resolution	
Manual Control	1 cP (mPa.s)
Software control	0.1 cP (mPa.s)
> Repeatability	0.2%

Complete Configuration :

Merlin VR Instrument

Temperature Controller / Instrument stand

PSU + Cable (Instrument)

PSU + Cable (Temp control)

Cone and plate system

C25 cup & bob system

30mm Parallel plate

I2C & RS232 communications cables

CD "micra" Windows ™ Research Software