

N μ line

Cone & Plate Viscometer

N μ Line is a Cone & Plate Viscometer designed for fast, reliable quality control measurements across a wide range of industrial applications. It is easy to clean and maintain in the harshest manufacturing environments with a range of fully interchangeable cone sizes available.

Features & Benefits

- The Viscometer is pre-calibrated and ready to use straight out of the box.
- Low and high temperature models.
- Temperature setting adjustable in 0.1°C increments.
- Fully variable speed settings: 5 RPM to 900RPM.
- Legacy mode – replicate the speed presets of previous generation REL instruments
- Security code access protection of instrument settings.
- Sample size less than 1ml.
- Six fully inter-changeable cone sizes.
- Free cone of choice with all new instruments, with self-calibrating routines for quick and easy set-up.
- Dual language display, selectable between English and a second language of your choice.
- PC software interface allows the user to remotely adjust the user parameters and run, display and record flow & time curve data.
- Optional push button or piezo type start/read button for easy cleaning in sticky, dirty conditions.
- Rugged and durable design for use in demanding manufacturing environments.
- Standards: BS3900, ISO 2884



Typical applications include:



Decorative Paints



Industrial Finishes



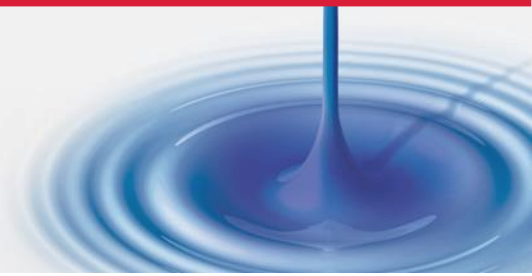
Inks Liquid & Paste



Motor Finishes



Powder Coatings



Technical Specification

N μ Line Cone & Plate Viscometer

Cone Types:	2P, 5P, 10P, 20P, 40P, and 100P.
Temperature Ranges:	Low Temperature: Model REL0100; 10°C to 100°C. Settings adjustable to 0.1°C
	High Temperature: Model REL0230; 25°C to 230°C. Settings adjustable to 0.1°C
Speeds:	Fully variable from 5 RPM to 900 RPM in integer increments.
	Low speed mode from 5 RPM to 90 RPM adjustable in 0.1 RPM increments.
Selectable Units:	Temperature - °C or °F, Cone speed - RPM or sec-1, Viscosity - Poise or Pa.s.
Accuracy:	±2% of full scale, confirmed using calibrated standard oils.
Power:	100-240VAC 50/60 Hz Single Phase, 150 watts.
Warm Up:	10 minutes from cold.
Digital Display:	Colour display of all user settable parameters and Viscosity readings fully controlled via rotary push button with left/right joystick functions.
PC Interface:	USB, instrument range setting and control, with graph plotting and storage.
Dimensions:	H = 510mm, W = 302mm, D = 302mm . Weight = 13.5kg.

Measurement range by cone:

Cone	Max Viscosity at 900 rpm		Max Viscosity at 750 rpm		Max Viscosity at 5 rpm		Shear Rate
	Poise	Pa.S	Poise	Pa.S	Poise	Pa.S	
2P	0 to 2	0 to 0.2	0 to 2.5	0 to 0.25	0 to 375	0 to 37.5	75 - 10,800 sec-1
5P	0 to 4	0 to 0.4	0 to 5	0 to 0.5	0 to 740	0 to 74.0	75 - 10,800 sec-1
10P	0 to 8	0 to 0.8	0 to 10	0 to 1.0	0 to 1500	0 to 150	75 - 10,800 sec-1
20P	0 to 16	0 to 1.6	0 to 20	0 to 2.0	0 to 3000	0 to 300	15 - 2,500 sec-1
40P	0 to 32	0 to 3.2	0 to 40	0 to 4.0	0 to 6000	0 to 600	15 - 2,500 sec-1
100P	0 to 80	0 to 8.0	0 to 100	0 to 10.0	0 to 15000	0 to 1500	15 - 2,500 sec-1



PC Interface output graph showing sample Viscosity plotted against Shear Rate, one of the many new additional features of the N μ Line Cone & Plate Viscometer.