



TECHNICAL SPECIFICATIONS

The NµLine Cone & Plate Viscometer is based upon the proven historical concept and long-established design of Research Equipment London's (REL) Analogue Viscometer which was used as the original instrument for the BS3900 standard.

The NµLine[®] Cone & Plate Viscometer is a self-calibrating, highly adaptable 'At-Line' instrument designed to be a costeffective and robust option between delicate laboratory instruments and the lower-end 'Go-No-Go' type viscosity measurement devices currently on the market.

Readings can be taken at variable shear rates, with multiple speeds and at temperatures between 10°C to 230°C.

Operation is simple, with easy-to-use navigation throughout the measurement process. The instrument is easily cleaned, and samples may be tested in 60 to 120 seconds, depending upon the material.

NµLine[®]'s stand-alone, 'At-Line' capabilities are enhanced by new intuitive Windows-based software, compatible with Windows 7 and higher, which takes on board many of the additional rheological features that customers have requested; while still maintaining the historical foundations of the original ICI Cone & Plate instruments, on which the NµLine[®] Cone & Plate technology is based.

The rugged design ensures that it meets the high demands of modern manufacturing environments with both reliability and performance standards. With many new features, NµLine[®] is designed to meet the diagnostic needs of the latest production standards.

With process applications in the paint, varnish, inks, resins, food, bitumen, oil, adhesives and pharmaceutical industries, to name but a few, the NµLine[®] Cone & Plate Viscometer has been designed for these and a range of other manufacturing sectors.





FEATURES AND BENEFITS



- Variable speed settings: 5 RPM in integer increments up to 900RPM.
- Low-speed mode with speeds of 5-90 RPM in 0.1 RPM increments.
- Low-temperature Model REL0100: 10°C to 100°C variable temperature range with sub-ambient capabilities.
- High-temperature Model REL0230: ambient to 230°C variable temperature range (no cooling).
- Instrument range, plate temperatures, and viscosity reading with selectable units all software displayable.
- The PC Interface software allows users to analyse and record results and run shear rate or time sweeps.
- The viscometer is pre-calibrated, certificated, and ready to use straight out of the box.
- Free cone of choice with all new machines, with easy self-calibrating routines for quick and easy set-up.
- NµLine can be calibrated to operate with multiple cone sizes in the same machine.
- Sample Size typically 0.2ml.
- High-quality, value for money product manufactured to BS EN ISO2884-1:2006.
- Designed to withstand use in rugged manufacturing environments.

SPEEDS	Variable 5 to 900 rpm in integer steps or 5 to 90 RPM in 0.1 RPM steps (software selectable mode). Digital speed control typically better than 0.02 RPM
CONE TYPES	2 Poise, 5 Poise, 10 Poise, 20 Poise, 40 Poise, and 100 Poise
TEMPERATURE RANGES	10°C to 100°C and ambient to 230°C with variable temperatures, both ranges are available with variable temperatures having a resolution of 0.1°C and contro typically +/- 0.1°C
SELECTABLE UNITS:	°C or °F, rpm or sec ⁻¹ , Poise or Pa.s.
FEATURES:	Piezo Push-to-Read button unaffected by contaminants, standard push button as an option Integrated stick mouse for software control
	Precise beryllium-copper spring-based torque measurement
	Simple automated cone calibration using NIST standard oils
	Automated temperature calibration (additional equipment required)
ACCURACY & REPEATABILITY:	Better than 1% of span using standard calibration oils
POWER:	85-240VAC 50/60 Hz single phase universal power, 150 watts
WARM UP:	10 minutes from ambient
DIGITAL DISPLAY:	4.3" colour LCD display
PC INTERFACE & FIRMWARE:	USB connection to external PC with free measurement Window-based software (in English). The instrument firmware is also upgradable via USB. Bilingual display. The firm-
	ware is available in several languages and can be customised by request.
DIMENSIONS:	H = 510mm, W = 302mm, D = 302mm .
	Weight: Low-temperature = 13.5kg, High Temperature = 13kg

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