



# NμLine Cone & Plate Viscometer

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 cost effective 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 and straight forward 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.

The rugged design ensures that it meet's 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 very 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.

NμLine's stand alone, 'At-Line' capabilities are enhanced by new intuitive Windows based software, compatible with windows 7, 8 & 10, which takes on board many of the additional features that customers have been requesting; while still maintaining the historical foundations of the original ICI Cone & Plate instruments, on which the NμLine Cone & Plate technology is based.



**Paints and finishes**



**Pharmaceuticals**



**Inks  
Liquid & Paste**



**Motor  
Finishes**



**Powder  
Coatings**



**Plastics  
and Resins**

### Features & Benefits

- Variable speed settings: 5 RPM in integer increments up to 900RPM.
- Low Temperature Model REL0100 10°C to 100°C variable temperature range with sub-ambient capabilities.
- High Temperature Model REL0230 25°C to 230°C variable temperature range.
- Instrument range, plate temperatures and viscosity reading with selectable units all software displayable.
- PC Interface Software is provided to allow the user to analyse and record results as well as 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.
- Sample Size less than 1ml.
- High quality, value for money product manufactured to BS EN ISO2884-1: 2006.
- Designed to withstand use in rugged manufacturing environments.

<b>Speeds:</b>	Variable 5 to 900 rpm in integer steps
<b>Cone Types:</b>	2 Poise, 5 Poise, 10 Poise, 20 Poise, 40 Poise & 100 Poise Cone.
<b>Temperature Ranges:</b>	10°C to 100°C and 25°C to 230°C with variable temperatures, both ranges are available with variable temperatures having a resolution of 1°C.
<b>Selectable Units:</b>	°C or °F, rpm or sec <sup>-1</sup> , Poise or Pa.s.
<b>Features:</b>	Piezo Read button unaffected by contaminants. Auto - Zero. Simple cone calibration using NIST standard oils
<b>Accuracy:</b>	±2% of full scale, confirmed using calibrated standard oils.
<b>Power:</b>	100-240VAC 50/60 Hz Single Phase 150 watts.
<b>Warm Up:</b>	10 minutes from cold.
<b>Digital Display:</b>	4.3 inch VGA display
<b>PC Interface:</b>	USB connection to external PC. Firmware upgradable via USB
<b>Dimensions:</b>	H = 510mm, W = 302mm, D = 302mm . Weight Low Temperature = 13.5kg, High Temperature = 13kg.

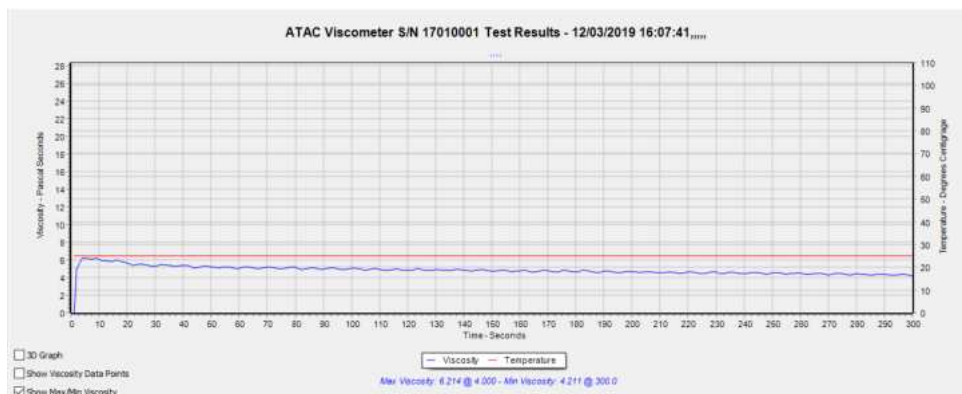


Illustration purposes only

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