



KNB - Rotational viscosimeters

▶ 810 series, digital viscosimeter

1 | Viscosimeters are ideal instruments for determining the viscosity of various types of fluids such as oils, foodstuffs, lubricants, paints, adhesive solvents, emulsions, etc.

2 | The new Nahita 810 Series digital viscometers allows to measure the average dynamic viscosity of fluids by selecting the rotation speed of the different stainless steel spindles. They employ a high performance 16 bit single chip technology. Unlike the old method of speed regulation they use a step motor that ensures a constant rotation speed, based on a pre-set program providing high precision measurements.

3 | The 810 series incorporates the Autorun function, which advises us which spindle and speed to use to measure samples with unknown viscosity after checking the sample with different tools and speeds. In addition, to the viscosity measured in mPa·s, it also shows the percentage that the measured value represents in relation to the whole measuring range. These characteristics allow a more efficient spindle selection to obtain a more precise result, and, at the same time, easier operation.



Spindle 0



Spindles 1-4

Features

- 1 | Equipped with 4 spindles, spindle guard and temperature probe.
*Spindle 0 specific for measuring low viscosities included also in models KNB008, KNB009 and KNB010.
- 2 | LCD backlit display and large control panel for speed and spindle parameter selection
- 3 | RS-232 output
- 4 | Solid support and metal bracket for a strong grip. Incorporates leveling bubble for perfect leveling.

- 5 | Solid column with rack and pinion system and metal head clamp. They allow to place the head comfortably at the desired height, ensuring good stability.
- 6 | The equipment is supplied with support for spindles and on aluminium breacase for optimum viscometer and support storage and conservation.

Technical features

Code	KNB005	KNB008	KNB006	KNB009	KNB007	KNB010
Model	810/1	810/10	810/2	810/20	810/3	810/30
Measur. range (mPa·s (cPa))	10 – 100000	1 – 100000	10 – 2 x10 ⁶	1 – 2 x10 ⁶	10 – 6x10 ⁶	1 – 6x10 ⁶
Speed (rpm)	6; 12; 30; 60	6; 12; 30; 60	0,3; 0,6; 1,5; 3; 6; 12; 30; 60	0,3; 0,6; 1,5; 3; 6; 12; 30; 60	0,1; 0,3; 0,6; 1,5; 3; 6; 12; 30; 60	0,1; 0,3; 0,6; 1,5; 3; 6; 12; 30; 60
Resolution	1 mPa·s	1 mPa·s	1 mPa·s	1 mPa·s	1 mPa·s	1 mPa·s
Accuracy	± 1%	± 1%	± 1%	± 1%	± 1%	± 1%
Spindle	1, 2, 3, 4	0, 1, 2, 3, 4	1, 2, 3, 4	0, 1, 2, 3, 4	1, 2, 3, 4	0, 1, 2, 3, 4
Repeatability	0.5 %	0.5 %	0.5 %	0.5 %	0.5 %	0.5 %
Power	110/220V; 50/60Hz	110/220V; 50/60Hz	110/220V; 50/60Hz	110/220V; 50/60Hz	110/220V; 50/60Hz	110/220V; 50/60Hz

*Spindle 0, specific for low viscosities included in models KNB008, KNB009 and KNB010