Rheology Solutions

Rheology Solutions is the sole Australian distributor of this product range and we welcome the opportunity of discussing your application requirements.

We hope the information you are seeking is contained within this file. If you have any questions, or require further information please contact us. We look forward to being of further service.

Regards from the Team at Rheology Solutions.

RHEOLOGY SOLUTIONS PTY LTD. ACN 082 479 632
HEAD OFFICE: 15-19 Hillside Street, Bacchus Marsh, Victoria 3340 Australia. PO Box 754, Bacchus Marsh, Victoria 3340 Australia.
Telephone: +61 3 5367 7477 **Facsimile:** +61 3 5367 6477 **Email:** info@rheologysolutions.com **Website:** www.rheologysolutions.com

Rheometer Viskomat NT from Schleibinger Geraete

The **Viskomat NT** is a versatile rotational vis−cosimeter for determing the workabilty of fine−grained building materials such as cement paste, mortar, fine concrete, plaster etc. with a maximum particle size of 2 mm. You can obtain information on:

- flow curves and rheological parameters
- temperature dependent workability properties
- stiffening behaviour as a function of time and stirring speed
- effects of concrete admixtures and mineral blending agents on workability

Not only is all this information useful for the materials themselves, but tests have shown that trends established, for example, in mortar are reflected in the behaviour of concrete at full scale.

Construction and operating principles

The **Viskomat NT** is a true speed controlled viscometer driven by a high precision synchron motor. Each rotation is resolved within 200.000 steps. It allows ramping from 0.001 rpm to 400 rpm in both directions to record flow curves and yield points. The torque up to ±250 Nmm is measured by a special transducer.

The standard measuring system consists of a stationary probe which is mounted concentrically in a rotating cylindrical sample container. As the sample flows around the paddle the shear resistance generates a torque which is continuously monitored electronically. The paddle is mounted on a measuring head, which runs up and down automatically to allow easy filling, emptying and cleaning of the sample container. The sample container is mounted on a speed drive shaft.

The temperature is measured by a sensor located within the measuring paddles.

All the electronics are housed in a separate case containing a powerful microprocessor and two special signal processors. An online display shows torque, time and temperature during the measurement in a grahical way. The electronic has a serial and an ethernet interface to any PC running the **VISKO** software. With the ethernet interface you can integrate the **Viskomat N**T in any TCP/IP based (10 Mbit, RJ45) network. The **Viskomat NT** has an built in WWW Server so any WEB browser may be used as user interface, the **Viskomat NT** can be remote controlled from any workplace in your local area network.

Features

- robust apparatus for industrial environments – quality control, research and development
- informative, easy to use test procedures
- automatic running of predefined test procedures which can be either standardised or tailored to your own requirements
- inhomogeneous materials measureable with particles up to 2 mm using special paddles to invoid separation

Basic Data

Power requirements	230V / 50Hz
Dimensions • Viskomat • Control Unit	(w x d x h) 300x670x50 mm 190x450x350
Torque	0−±250 Nmm
Speed	±0,001−±400 rpm
Sample volume	370 ml
Weight	20 kg

RHEOLOGY SOLUTIONS PTY LTD. ACN 082 479 632
HEAD OFFICE: 15-19 Hillside Street, Bacchus Marsh, Victoria 3340 Australia. PO Box 754, Bacchus Marsh, Victoria 3340 Australia.
Telephone: +61 3 5367 7477 **Facsimile:** +61 3 5367 6477 **Email:** info@rheologysolutions.com **Website:** www.rheologysolutions.com