Rotational Viscometer - Digital Lab Viscosity Meter - 20-2,000,000 mPa·s - 0.3-60 rpm

Model **MSVSC-N4SWISS, MSVSC-N5SWISS, MSVSC-N8SWISS** | Brand **Master Science**









The Master Science Rotational Viscometer is a spindle-type digital viscometer for measuring the dynamic viscosity of oils, paints, adhesives, food products, cosmetics and other liquids. A 16-bit microprocessor controls motor speed and calculates viscosity in real time.

KEY HIGHLIGHTS

- Pick the right range fast
- Wide measuring span
- Stable speed
- Data transfer
- Temperature-controlled testing

AT A GLANCE

20 to 2,000,000 mPa·s (N4, N8); 20 to 100,000 mPa·s (N5)
MEASURING RANGE

4 speeds: 6, 12, 30, 60 rpm
SPEEDS (N5)

4 (L1, L2, L3, L4)
SPINDLES

8 speeds: 0.3, 0.6, 1.5, 3, 6, 12, 30, 60 rpm
SPEEDS (N4, N8)

Request a Quotation
Contact us for pricing, configuration options and delivery details.

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Overview

The LCD shows viscosity, spindle speed, torque percentage, spindle number and the maximum viscosity measurable with the current spindle-speed combination, so operators can choose the right setting quickly.

Key Benefits

Pick the right range fast
the display shows the maximum viscosity for each spindle and speed combination.

Wide measuring span
the Master Science Rotational Viscometer covers from thin liquids to thick pastes up to 2,000,000 mPa·s.

Stable speed
microprocessor speed control gives consistent shear conditions.

Data transfer
RS232 output connects to a printer or PC.

Temperature-controlled testing
optional thermostatic baths and heaters hold sample temperature.

For starch and flour pasting tests, see the Master Science starch pasting viscometer.

Technical Specifications

THE MASTER SCIENCE ROTATIONAL VISCOMETER IS OFFERED IN THREE VERSIONS

Brand	Master Science
Model Number	MSVSC-N4SWISS, MSVSC-N5SWISS, MSVSC-N8SWISS
SKU	MSVSC-N4SWISS, MSVSC-N5SWISS, MSVSC-N8SWISS
Models	MSVSC-N4SWISS, MSVSC-N5SWISS, MSVSC-N8SWISS
Measuring Range	**20 to 2,000,000 mPa·s (N4, N8); 20 to 100,000 mPa·s (N5)**
Speeds (N4, N8)	8 speeds: 0.3, 0.6, 1.5, 3, 6, 12, 30, 60 rpm
Speeds (N5)	4 speeds: 6, 12, 30, 60 rpm
Spindles	4 (L1, L2, L3, L4)
Accuracy	**±5 % relative (N4); ±1 % of full scale (N5, N8)**
Repeatability	±1 % relative (N4); ±0.5 % of full scale (N5, N8)
Display	LCD: viscosity, speed, torque, spindle and maximum range
Timing Function	Measurement timer (N4)
Output	RS232
Power	Adapter, 100 to 240 V, 50/60 Hz
Package Dimensions	420 × 370 × 400 mm
Weight	8 kg

COMMON LABORATORY PROBLEMS AND HOW THIS VISCOMETER HELPS

Common Laboratory Problems and How This Viscometer Helps	How the Master Science Rotational Viscometer helps with viscosity testing:
Choosing the wrong spindle	the range display guides selection.
Readings drifting with temperature	optional baths and heaters stabilise samples.
Manual record keeping	RS232 output transfers data.
Very thick samples	high range reaches 2,000,000 mPa·s.
Small sample volumes	an optional small sample adapter is available.

Applications

The Master Science Rotational Viscometer is used for
Paints, inks and coatings Adhesives and sealants Lubricating oils and petroleum products Food, cosmetics and pharmaceutical liquids Polymer solutions and chemicals

Control

- 16-bit microprocessor
- 4 or 8 speed settings
- Measurement timer on N4

Display

- Viscosity, speed and torque %
- Spindle number and range limit

Hardware

- Four standard spindles
- Lifting stand with levelling feet
- Spindle guard and RS232 port

Standard Accessories Included

- Viscometer main unit
- Standard spindle set
- Spindle guard
- Base with levelling feet
- Lifting stand
- Power adapter
- Spanner
- RS232 output interface

Optional Accessories

- Ultra-low viscosity adapter with L0 spindle
- Small sample adapter (spindles 21, 27, 28, 29)
- Spindle L5
- Temperature-controlled heater
- RTD temperature probe
- Dedicated printer
- Refrigerated or heating thermostatic bath