



VISCOMETERS

RC01 / RC02

**FOR FAST VISCOSITY MEASUREMENTS
(BROOKFIELD METHOD)**



model RC01-R with Brookfield spindles

RheoTec models RC01 and RC02 are rotational viscometers for easy and fast viscosity determination as specified in ISO 2555 and other ASTM standards. These standards define a viscometer to be used in torque, rotational speed and spindle design. The viscometers RC01/RC02 (versions L or R) comply with the provided instrument specifications and are therefore 100% **compatible to the Brookfield method**.

These instruments with an easy-to-clean geometry give the opportunity to do precise and time-saving single point measurements in daily routine as well as to perform advanced viscosity determinations in research and development.

SPECIAL FEATURES

- clear keypad allows a simple menu navigation
- digital display for direct reading of diverse parameters
- complete Brookfield spindle set (torque range versions L or R)
- temperature sensor Pt100 for flexible installation
- warning signal of under- or over-range condition
- interface RS232 for data transfer to PC
- bidirectional interface RS232 for RC02 control and PC data evaluation
- robust carrying case for viscometer and standard accessories (incl. spindle rack, spindle guard and manual)

REQUIREMENTS

| | |
|-------------------|--------------------------|
| mains | 100 – 240 V / 50 – 60 Hz |
| room temperature | 10° C – 40° C |
| relative humidity | < 80 % |

DISPLAY PARAMETERS

| | |
|---------------------------------------|--|
| rotational speed | rpm |
| spindle no. (used geometry) | S.P. |
| dynamic viscosity | mPas or cP |
| scale (Brookfield) | % |
| sample temperature | °C or °F |
| auto range (max. viscosity) | mPas or cP |
| shear rate S.R. | 1/sec |
| shear stress S.S. (at RC02 models) | N/m ² or dyne/cm ² |

OPTIONAL ACCESSORIES

- Adapter for Small Sample Volumes
- Adapter for Low Viscosity Materials
- Helipath stand
- software VISCOSOFT BASIC
(measurement presentation, data evaluation)
- software RHEOSOFT PLUS
(viscometer control, data management)

SPECIFICATIONS

rotational speeds

0.3 – 0.5 – 0.6 – 1 – 1.5 – 2 – 2.5 – 3 – 4 – 5 –
6 – 10 – 12 – 20 – 30 – 50 – 60 – 100 – 200 rpm
accuracy: > 0.5 % of absolute value

spindles

version L: 4 spindles (L1 – L2 – L3 – L4)
version R: 6 spindles (R2 – R3 – R4 – R5 – R6 – R7)

viscosity ranges

version L: 3 – 2.000.000 mPas in 76 ranges
19 speeds with 4 spindles
(for low to medium viscosity test fluids)
version R: 20 – 13.000.000 mPas in 114 ranges
19 speeds with 6 spindles
(for medium to high viscosity test fluids)
accuracy: ± 1 % of full scale
repeatability: ± 0.2 %

temperature sensor

temperature range: -15° C to +180° C (5° F to 356° F)
resolution: 0.1° C (0.1722° F)
accuracy: ± 0.1° C

rheotec

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