





COMPATIBLE

New USB port for software use and measurements directly from PC.

DURABLE

The housing of the R190 is made of solid aluminium and offers the usual proRheo quality. It will meet all the challenges of everyday work.

FLEXIBLE MEASUREMENT MODES

• Single point measurement:

Enter any shear rate and read the measurement result immediately. If your R190 is connected to a PC the measurement results are recorded continuously. Changes in shear stress and viscosity are also recorded as a function of time. (Excellent for pot life determination).

Step Programs:

In the automatic mode you can choose between 10 measurement programs, recording 8 points at different shear rates. The rotational speed is at first increased from low to high and then back down again. The resulting points give a flow curve which can be recorded on your PC or printer. Two of the step programs are predefined and a further 8 are available for customised testing, these can be saved and retrieved by their step program number.



NEW DESIGN



Weight: 2,55 kg

Dimension: 150 x 345 x 130 (W x H x D/mm)

INSTRUMENT OPERATIONAL INFORMATION

The equipment may be stored and operated in an environment from -20 to 60 °C.

VOLTAGE

with power supply: 100 to 250 V AC with 50/60 Hz, 1.0 A



INTERFACES

USB for direct PC connection.

TOROUE

0,1 to 25 mNm +/- 0,01 mNm

ROTATIONAL SPEED

5 to 1000 rpm +/- 1 rpm

MEASURING SYSTEMS

11 predefined measuring systems 99 programmable measuring systems

MEASUREMENT RANGE

Viscosity: 0.002 Pas to 10.000 Pas according to measurement systems. Shear range: 0,8 s⁻¹ to 3.000 s⁻¹

MEASUREMENT OF TEMPERATURE BY PT 100

TEMPERATURE OF SAMPLE

-9,9 to 99,9 °C +/- 0,1 °C 100 to 120 °C: +/- 1,0 °C

MEASUREMENT PROGRAMS

- 8 measurement points at different shear rates.
- 2 predefined test setups.
- 8 programmable test setups, minimum and maximum shear rates, statistical analysis available.

SOFTWARE

Different operational and analytical programs are available. Special print-out programs for ASCII or direct access to Excel.

System requirements for software RHESY:

- IBM PC or compatible PC from Pentium
- 166 MHz, 64 MB main memory (RAM)
- CD-ROM drive
- 1 free serial or USB interface
- Windows operating system

	Measurement systems	Measurement tube Ø mm	Measurement bob Ø mm	Viscosity (Pas)min.	Viscosity (Pas)max.	filling volume (ml)
DIN 53018/	11	32,54	30	0,005	19	ca. 24
DIN 53019	22	26,03	24	0,010	38	ca. 16
	33	15,18	14	0,050	191	ca. 9
Relative	19	32,54	31,5	0,002	7	ca. 20
systems	12	32,54	24	0,027	104	ca. 18
	13	32,54	14	0,210	800	ca. 26
	23	26,03	14	0,240	906	ca. 18
	14	32,54	14	0,545	2.080	ca. 26
Special relative	71			0,003	10	
systems	71			0,027	104	
	73			0,160	605	
	74			0,665	2.530	
	75			2,580	9.800	
ISO 2555	61			0,007	26	
	62			0,028	106	
	63			0,070	264	
	64			0,139	529	
	65			0,278	1.057	
	66			0,696	2.643	
	67			2,783	10.574	