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rheological answers!

Rheomat R 123

Rotational viscometer for
the measurement of viscosity
with VT02 measuring systems

www.prorheo.de

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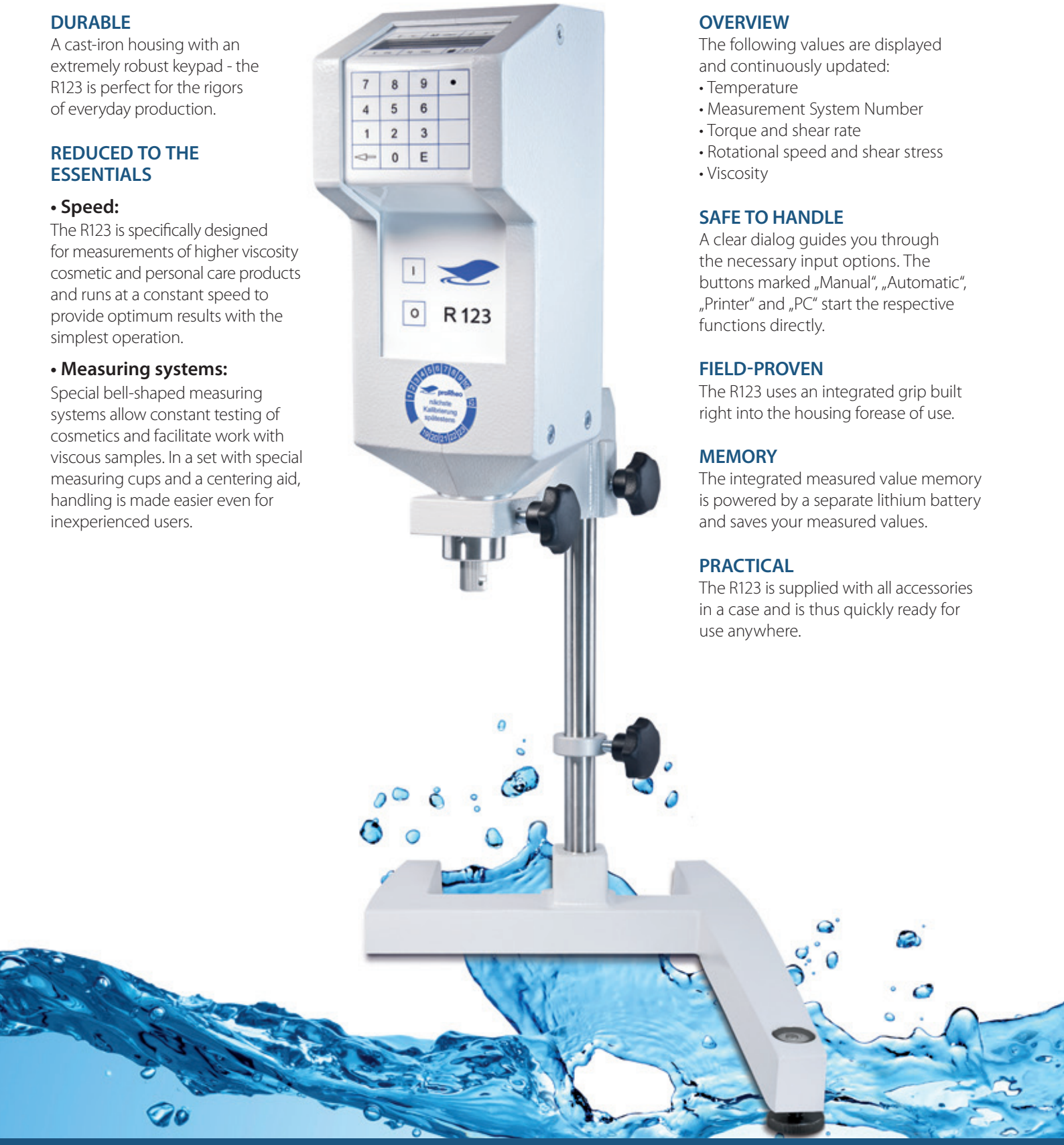
DURABLE
A cast-iron housing with an extremely robust keypad - the R123 is perfect for the rigors of everyday production.

REDUCED TO THE ESSENTIALS

• Speed:
The R123 is specifically designed for measurements of higher viscosity cosmetic and personal care products and runs at a constant speed to provide optimum results with the simplest operation.

• Measuring systems:
Special bell-shaped measuring systems allow constant testing of cosmetics and facilitate work with viscous samples. In a set with special measuring cups and a centering aid, handling is made easier even for inexperienced users.



OVERVIEW
The following values are displayed and continuously updated:
• Temperature
• Measurement System Number
• Torque and shear rate
• Rotational speed and shear stress
• Viscosity

SAFE TO HANDLE
A clear dialog guides you through the necessary input options. The buttons marked „Manual", „Automatic", „Printer" and „PC" start the respective functions directly.

FIELD-PROVEN
The R123 uses an integrated grip built right into the housing forease of use.

MEMORY
The integrated measured value memory is powered by a separate lithium battery and saves your measured values.

PRACTICAL
The R123 is supplied with all accessories in a case and is thus quickly ready for use anywhere.

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R123 DIMENSIOS
Weight: 2,35 kg
Dimension: 100 x 300 x 135 (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

TORQUE
0,25 to 10 mNm +/- 0,01 mNm

ROTATIONAL SPEED
preset to 62,5 rpm

MEASURING SYSTEMS
special VT measuring bells

MEASUREMENT RANGE
Viscosity: 0,002 Pas to 3420,0 Pas
according to the VT measurement systems.

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

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

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