



designed for scientists



ROTAVISC lo-vi HELI Advanced

/// Data Sheet

Regardless of a simple or demanding viscosity measurement - ROTAVISC lo-vi HELI Advanced determines the viscosity of low-viscosity liquids in all areas of application ranging from the laboratory to quality control.

The scope of delivery includes a standard spindle set (SP 1-SP 4), a protective bracket, temperature sensor, quick connector, hook connector, HELISTAND stand incl. T-spindle set and the laboratory software labworldsoft® 6 Visc.

Easy to operate

The generous 4.3" TFT display allows for an intuitive menu guidance. A digital spirit level also supports the correct



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set-up of the start-up condition. The simple ramp function simplifies repetitive tasks.

Highest measurement accuracy

The level of measurement accuracy of the ROTAVISC rotational viscometer for both Newtonian and non-Newtonian fluids is +/- 1 % of the measuring range. The reproducibility is +/- 0.2 %.

Stepless speed

ROTAVISC is a viscometer, which offers stepless speed adjustment.

Viscosity measurement in motion

The motorized IKA HELISTAND moves the mounted viscometer and its rotating body slowly and uniformly up and down in the sample

labworldsoft® 6 Visc

The software allows you to combine and control multiple devices, such as a thermostat and other measuring systems. In addition it provides

secure data handling and supports the specifications of FDA CFR 21 Part 11 including features like:

- User management system
- Record protection
- Audit trails
- Electronic signature

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Viscosity measuring range: 15 - 6.000.000 mPas

Technical Data

Viscosity Measuring Range [mPas]	6000000
Viscosity Accuracy (FSR) [%]	1
Viscosity Repeatability (FSR) [%]	0.2
Spring torque [mNm]	0.0673
Guard rail	lo-vi
Measuring spindle series	SP set-1
Motor rating output [W]	4.8
Overload protection	yes
Direction of rotation	right
Display	TFT
Speed display	TFT
Speed range [rpm]	0.01 - 200
Setting accuracy speed [\pm rpm]	0.01
Speed control	TFT
Torque display	yes
Torque measurement	yes
Timer	yes
Timer display	TFT
Time setting range [min]	0.017 - 6000
Temperature measurement resolution [K]	0.1
Working temperature display	TFT
Connection for ext. temperature sensor	PT 100
Graph function	yes
Operating mode	timer and continuous operation
Calibration option	yes
Touch function	yes
Permitted density [kg/dm ³]	9999
Working temperature [°C]	-100 - 300
Fastening on stand	extension arm
Support rod diameter (with integrated fastening on stand) [mm]	16
Telescope stand stroke [mm]	142
Plug-in coupling (Ø) [mm]	12
Basic container volume [ml]	600
Stand	HELISTAND
Stroke max. [mm]	61
Diameter [mm]	16
Dynamic load [kg]	3.2
PC Software	yes
Dimensions (W x H x D) [mm]	351 x 629 x 372
Weight [kg]	7.1
Permissible ambient temperature [°C]	5 - 40
Permissible relative humidity [%]	80
Protection class according to DIN EN 60529	IP 40
RS 232 interface	yes
USB interface	yes
Voltage [V]	100 - 240
Frequency [Hz]	50/60
Power input [W]	24



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Power input standby [W]	0.06
DC Voltage [V=]	24
Current consumption [mA]	1000

