



designed for scientists



## ROTAVISC hi-vi I Complete

/// Data Sheet

The ROTAVISC series determines the viscosity of liquids in all areas of application ranging from the laboratory to quality control. The four devices measure in different viscosity ranges. Regardless of a simple or demanding viscosity measurement - the ROTAVISC delivers rapid and accurate results. The scope of delivery includes a standard spindle set ( SP7-SP12), a protective bracket, temperature sensor and ROTASTAND stand.

Easy to operate

The generous 4.3" TFT display allows for an intuitive menu guidance. A digital spirit level also supports the correct set-up of the start-up condition. The simple ramp function simplifies repetitive tasks.



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#### Highest measurement accuracy

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

#### Stepless speed

ROTAVISC is a viscometer, which offers stepless speed adjustment.

#### IKA ROTAVISC hi-vi I Complete

Viscosity measuring range: 200 - 80.000.000 mPas



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## Technical Data

|  |                                |
|--|--------------------------------|
| Viscosity Measuring Range [mPas]                               | 80000000                       |
| Viscosity Accuracy (FSR) [%]                                   | 1                              |
| Viscosity Repeatability (FSR) [%]                              | 0.2                            |
| Spring torque [mNm]  | 1.4374                         |
| Guard rail   | me-vi                          |
| Measuring spindle series                                       | SP set-2                       |
| 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 [rpm]                                   | ±0.01                          |
| Speed adjustment   | 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 <sup>3</sup> ]                        | 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]                                    | 200                            |
| Plug-in coupling (Ø) [mm]                                      | 12                             |
| Basic container volume [ml]                                    | 600                            |
| Stand  | Rotastand                      |
| Stroke max. [mm]   | 61                             |
| Diameter [mm]  | 16                             |
| Dynamic load [kg]  | 5                              |
| 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                             |
| Power input standby [W]  | 0.06                           |



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|                          |      |
|--------------------------|------|
| DC Voltage [V=]          | 24   |
| Current consumption [mA] | 1000 |