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## STARVISC 200-2.5 control

/// Data Sheet

Measure viscosity and display it, even during product development: the new IKA STARVISC 200-2.5 control torque-measuring stirrer makes it possible. The result can be read in real-time on the display. STARVISC therefore has a broad range of applications. This is particularly helpful during product development: STARVISC already clearly indicates while running research programmes as to whether the stirred substance can be used as desired.

High-precision measurement

STARVISC measures in a highly precise way and does this even during the manufacturing process. Samples no longer have to be taken separately.



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#### Viscosity calculation

A viscosity calculation can be carried out immediately via a userfriendly menu.

#### Removable control unit

The modern TFT display is removable. This means that STARVISC can also be controlled from a safe distance.

#### Powerful stirrer

Even highly viscous substances can be intensively stirred using the powerful STARVISC stirrer.



## Technical Data

Stirring quantity max. per stirring position (H2O) [l]	100
Motor rating input [W]	130
Motor rating output [W]	84
Motor principle	Brushless DC
Speed display	TFT
Speed range [rpm]	0/6 - 2000
Intermittent operation	yes
Viscosity max. [mPas]	100000
Output max. at stirring shaft [W]	84
Permissible ON time [%]	100
Torque max. at stirring shaft [Ncm]	200
torque I max. [Ncm]	200
torque II max. [Ncm]	40
Speed range I (50 Hz) [rpm]	6 - 400
Speed range II (50 Hz) [rpm]	30 - 2000
Speed range I (60 Hz) [rpm]	6 - 400
Speed range II (60 Hz) [rpm]	30 - 2000
Speed control	stepless
Setting accuracy speed [ $\pm$ rpm]	1
Deviation of speed measurement $n > 300$ rpm [ $\pm$ %]	1
Deviation of speed measurement $n < 300$ rpm [ $\pm$ rpm]	3
Stirring element fastening	chuck
Connection for ext. temperature sensor	PT1000
Temperature display	yes
Plug-in coupling ( $\varnothing$ ) [mm]	10
Chuck range diameter [mm]	0.5 - 10
Hollow shaft, inner diameter [mm]	10.3
Hollow shaft (push-through - when stopped)	yes
Fastening on stand	extension arm
Extension arm diameter [mm]	16
Extension arm length [mm]	220
Torque display	yes
Nominal torque [Nm]	2
Torque measurement	trend
deviation of torque measurement I [ $\pm$ Ncm]	2.5
deviation of torque measurement II [ $\pm$ Ncm]	2.5
Timer	yes
Timer display	TFT
Time setting range [min]	1 - 6000
Temperature measuring range [°C]	-10 - +350
Temperature measurement resolution [K]	0.1
Accuracy of temperature measurement [K]	$\pm 0.5$ + tolerance PT1000 (DIN IEC 751 Class A)
Limit deviation temperature sensor [K]	$\leq \pm (0.15 + 0.002 \times  T )$
housing material	alu-cast coating / thermoplastic polymer
communication distance (depend onbuilding) max. [m]	150
Dimensions (W x H x D) [mm]	91 x 395 x 231
Weight [kg]	5.9
Permissible ambient temperature [°C]	5 - 40



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Permissible relative humidity [%]	80
Protection class according to DIN EN 60529	IP 40
RS 232 interface	yes
USB interface	yes
Voltage [V]	230 / 100 - 115 / 100
Frequency [Hz]	50/60
Power input [W]	130

