



designed for scientists



## MINISTAR 20 control

/// Data Sheet

The new MINISTAR series by IKA: Developed using the latest cutting-edge technology, this high-tech overhead stirrer with its compact design is ideal for special applications.

Combining high performance with particular excellence, they require minimum space and come with a lifetime guarantee. See for yourself:

“The Fast One” in the high-tech mini class, perfect for low viscosities!

- Hardened glass enclosed, fast response display for maximum visibility and chemical resistance



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- State-of-art vibration sensors detect deviations from permissible thresholds and automatically stop the process
- Clear display for all essential information at a glance
- Integrated timer / counter for the control of kinetic sensitive reactions and reminders
- Viscosities up to 10,000 mPas and volumes of up to 15 l
- Continuously adjustable speed between 0/30 – 2,000 rpm
- USB interface, e.g. for documenting parameters using labworldsoft® or installing firmware updates
- Intuitive and simple handling; touch-sensitive surface for long service life
- Temperature reading on display
- Chemical resistant housing
- Key lock function
- Microprocessor-controlled speed governor for constant rotational speed, even with changes in viscosity



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## Technical Data

Stirring quantity max. per stirring position (H2O) [l]	15
Motor rating input [W]	60
Motor rating output [W]	46
Motor principle	Brushless DC
Speed display	LCD
Speed range [rpm]	0/50 - 2000
Viscosity max. [mPas]	10000
Output max. at stirring shaft [W]	42
Permissible ON time [%]	100
Torque max. at stirring shaft [Ncm]	20
Speed control	Turning knob
Setting accuracy speed [ $\pm$ rpm]	1
Deviation of speed measurement $n > 300$ rpm [ $\pm$ %]	3
Stirring element fastening	chuck
Connection for ext. temperature sensor	PT1000
Temperature display	yes
Chuck range diameter [mm]	0.5 - 8.2
Hollow shaft, inner diameter [mm]	8.5
Hollow shaft (push-through - when stopped)	yes
Fastening on stand	extension arm
Extension arm diameter [mm]	13
Extension arm length [mm]	160
Torque display	yes
Speed control	electronic
Nominal torque [Nm]	0.2
Torque measurement	trend
Deviation of torque measurement I [ $\pm$ Ncm]	3
Timer	yes
Timer display	LCD
Time setting range [min]	0 - 6000
Temperature measuring range [°C]	-10 - 350
Temperature measurement resolution [K]	0.1
Accuracy of temperature measurement [K]	$\pm 0.5 + \text{tolerance PT1000 (DIN EN 60751 Class A)}$
Limit deviation temperature sensor [K]	$\leq \pm (0.15 + 0.002 \times  T )$
Housing material	alu-cast coating / thermoplastic polymer
Communication distance (depend on building) max. [m]	150
Dimensions (W x H x D) [mm]	70 x 193 x 154
Weight [kg]	1.56
Permissible ambient temperature [°C]	5 - 40
Permissible relative humidity [%]	80
Protection class according to DIN EN 60529	IP 54
USB interface	yes
Voltage [V]	100 - 240
Frequency [Hz]	50/60
Power input [W]	69
DC Voltage [V=]	24
Current consumption [mA]	2900



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The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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