



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]                 | $\pm 0.5$ + 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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