



designed for scientists



## EUROSTAR 200 control P4

/// Data Sheet

Extremely powerful laboratory stirrer for highly viscous applications for quantities up to 100 l (H<sub>2</sub>O). It is designed with a removable wireless controller and a digital TFT display. It automatically adjusts the speed through microprocessor controlled technology within the speed range of 0/4 - 530 rpm (two speed ranges). The stirrer comes equipped with a RS 232 and a USB interface to control and document all parameters. An integrated torque trend display is provided for the measurement of viscosity changes. Safety circuits installed ensures automatic cut-off in an anti-stall or overload conditions. Continuous comparison of shaft speed to desired speed is maintained and variations are adjusted automatically. This guarantees a constant speed even with changes in viscosities of the sample.



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- Multilingual TFT display
- Programmable functions
- Integrated temperature measurement
- Interval operation
- Timer function
- Adjustable safety circuit
- Locked function
- Infinitely adjustable speed
- Overload protection
- Short-term overload operation
- Slim casing
- Quiet operation
- Error code display
- H 67.60 temperature sensor and WH 11 WiCo holder included in delivery



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## Technical Data

|                                                                     |                                               |
|---------------------------------------------------------------------|-----------------------------------------------|
| Stirring quantity max. per stirring position (H <sub>2</sub> O) [l] | 100                                           |
| Motor rating input [W]                                              | 134                                           |
| Motor rating output [W]                                             | 76                                            |
| Motor principle                                                     | Brushless DC                                  |
| Speed display                                                       | TFT                                           |
| Speed range [rpm]                                                   | 0/4 - 530                                     |
| Intermittent operation                                              | yes                                           |
| Viscosity max. [mPas]                                               | 150000                                        |
| Output max. at stirring shaft [W]                                   | 76                                            |
| Permissible ON time [%]                                             | 100                                           |
| Torque max. at stirring shaft [Ncm]                                 | 660                                           |
| Torque I max. [Ncm]                                                 | 660                                           |
| Torque II max. [Ncm]                                                | 130                                           |
| Speed range I (50 Hz) [rpm]                                         | 4 - 108                                       |
| Speed range II (50 Hz) [rpm]                                        | 16 - 530                                      |
| Speed range I (60 Hz) [rpm]                                         | 4 - 108                                       |
| Speed range II (60 Hz) [rpm]                                        | 16 - 530                                      |
| Speed control                                                       | stepless                                      |
| Setting accuracy speed [±rpm]                                       | 1                                             |
| Deviation of speed measurement n > 300rpm [±%]                      | 1                                             |
| Deviation of speed measurement n < 300rpm [±rpm]                    | 3                                             |
| Stirring element fastening                                          | chuck                                         |
| Connection for ext. temperature sensor                              | PT1000                                        |
| Temperature display                                                 | yes                                           |
| Chuck range diameter [mm]                                           | 0.5 - 10                                      |
| Fastening on stand                                                  | extension arm                                 |
| Extension arm diameter [mm]                                         | 16                                            |
| Extension arm length [mm]                                           | 220                                           |
| Torque display                                                      | yes                                           |
| Speed control                                                       | electronic                                    |
| Nominal torque [Nm]                                                 | 6.6                                           |
| Torque measurement                                                  | trend                                         |
| Deviation of torque measurement I [±Ncm]                            | 60                                            |
| Deviation of torque measurement II [±Ncm]                           | 10                                            |
| 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]                             | ±0.5 + tolerance PT1000 (DIN IEC 751 Class A) |
| Limit deviation temperature sensor [K]                              | ≤ ± (0.15 + 0.002x T )                        |
| Housing material                                                    | alu-cast coating / thermoplastic polymer      |
| Communication distance (depend on building) max. [m]                | 150                                           |
| Dimensions (W x H x D) [mm]                                         | 91 x 379 x 231                                |
| Weight [kg]                                                         | 5.8                                           |
| Permissible ambient temperature [°C]                                | 5 - 40                                        |
| Permissible relative humidity [%]                                   | 80                                            |
| Protection class according to DIN EN 60529                          | IP 40                                         |



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|                  |                       |
|------------------|-----------------------|
| RS 232 interface | yes                   |
| USB interface    | yes                   |
| Voltage [V]      | 230 / 100 - 115 / 100 |
| Frequency [Hz]   | 50/60                 |
| Power input [W]  | 134                   |



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