



EUROSTAR 100 control P4

/// Data Sheet

The extremely powerful laboratory stirrer EUROSTAR 100 control P4 with a removable wireless controller and a digital TFT display is especially suitable for highly viscous applications and provides a torque of up to 320 Ncm. It automatically adjusts the speed through microprocessor controlled technology within the speed range of 0/10 - 300 rpm. The stirrer comes equipped with a RS 232 and a USB interface to control and document all parameters. Furthermore, an integrated torque trend display is provided for the measurement of viscosity changes and its electronic safety circuit 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.



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



designed for scientists

Technical Data

| Stirring quantity max. per stirring position (H2O) [I] 100 Motor rating output [M] 142 Motor rating output [M] 142 Motor principle Bustless DC Speed display TFT Speed display TFT Speed display 10-300 Intermittent operation yes Viscosity max. staffing shaft [M] 100 Output max. at stirring shaft [M7] 100 Permissible On thing [3] 100 Torque max. at stirring shaft [M7] 320 Speed control sepless Setting accuracy speed [±pm] 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] 65-10 Estension arm diameter [mm] 16 Extension arm length [mm] 12 Torque display yes Nominal torque [mm] 3.20 Torque measurement [±Ncm] 3.20 Timer | Technical Data | |
|--|--|---|
| Motor principle Bushless DC Speed display TFT Speed display 10 - 300 Reversible direction of rotation yes Intermittent operation yes Viscosity max. (mPas) 100000 Output max. at stirring shaft [W] 100 Permissible ON time [%] 100 Torque max. at stirring shaft [Nom] 320 Speed control stepless Setting accuracy speed [±rpm] 1 Deviation of speed measurement n < 300rpm [±rpm] | Stirring quantity max. per stirring position (H2O) [I] | 100 |
| Motor principle Brushless DC Speed display TFT TFT | Motor rating input [W] | 174 |
| Speed display TFT Speed range [rpm] 10 - 300 Reversible direction of rotation yes Intermittent operation yes Viscosity max. [mPas] 100000 Output max. at stirring shaft [W] 100 Permissible ON time [%] 320 Speed control stepless Setting accuracy speed [2rpm] 1 Deviation of speed measurement n < 300rpm [arrpm] | Motor rating output [W] | 142 |
| Speed range [rpm] 10 - 300 Reversible direction of rotation yes Intermittent operation yes Viscosity max. [mPas] 1000000 Output max. at strimg shaft [W] 100 Forrus sible ON time [%] 320 Speed control stepless Setting accuracy speed [srpm] 1 Deviation of speed measurement n < 300rpm [srpm] | Motor principle | Brushless DC |
| Reversible direction of rotation yes Intermittent operation yes Intermittent operation yes Intermittent operation yes Intermittent operation 100000 Intermittent operation 100000 Intermittent operation 100000 Intermitable Ok time [%] 100 Intermitable Ok time [%] | Speed display | TFT |
| Intermittent operation yes 100000 100000 100000 100000 100000 100000 100000 100000 100000 100000 100000 100000 100000 100000 100000 100000 100000 10000000 100000000 | Speed range [rpm] | 10 - 300 |
| Viscosity max. [mPas] 100000 Output max. at stirring shaft [W] 100 Permissible ON time [%] 100 Torque max. at stirring shaft [Nom] 320 Speed control stepless Setting accuracy speed [±rpm] 1 Deviation of speed measurement n < 300rpm [±rpm] | Reversible direction of rotation | yes |
| Output max. at stirring shaft [W] 100 Permissible ON time [%] 100 Torque max. at stirring shaft [Ncm] 320 Speed control stepless Setting accuracy speed [±rpm] 1 Deviation of speed measurement n < 300rpm [±rpm] | Intermittent operation | yes |
| Permissible ON time [%] 100 Torque max. at stirring shaft [Ncm] 320 Speed control stepless Setting accuracy speed [±rpm] 1 Deviation of speed measurement n < 300rpm [±rpm] | Viscosity max. [mPas] | 100000 |
| Torque max. at stirring shaft [Ncm] 320 Speed control stepless Setting accuracy speed [±rpm] 1 Deviation of speed measurement n < 300rpm [±rpm] | Output max. at stirring shaft [W] | 100 |
| Speed control stepless Setting accuracy speed [±pm] 1 Deviation of speed measurement n < 300rpm [±rpm] | Permissible ON time [%] | 100 |
| Setting accuracy speed [±rpm] 1 Deviation of speed measurement n < 300rpm [±rpm] | Torque max. at stirring shaft [Ncm] | 320 |
| Deviation of speed measurement n < 300rpm [±rpm] | Speed control | stepless |
| 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 length [mm] 16 Extension arm length [mm] 220 Torque display yes Nominal torque [Nm] 3.20 Torque measurement trend Deviation of torque measurement [±Ncm] 30 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 + 0.002xITI) Housing material alu-cast coating / thermoplastic polymer Communication distance (depend onbuilding) max. [m] 150 Dimensions (W x H x D) [mm] 86 x 352 x 230 Weight [kg] 5.2 Permissible ambient temperature [°C] | Setting accuracy speed [±rpm] | 1 |
| Connection for ext. temperature sensor PT1000 Temperature display yes Chuck range diameter [mm] 0.5 - 10 Extension arm diameter [mm] extension arm Extension arm length [mm] 16 Extension arm length [mm] 220 Torque display yes Nominal torque [Nm] 3.20 Torque measurement trend Evaluation for torque measurement [±Ncm] 30 Timer yes Timer display TFT Time setting range [min] 1 - 6000 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/TI) Housing material alu-cast coating / thermoplastic polymer Communication distance (depend onbuilding) max. [m] 150 Dimensions (W x H x D) [mm] 86 x 352 x 230 Weight [kg] 5.2 Permissible enablent temperature [*C] 5 - 40 Permissible rative humidity [%] 80 Protection class according to DIN | Deviation of speed measurement n < 300rpm [±rpm] | 3 |
| 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 Nominal torque [Nm] 3.20 Torque measurement trend Deviation of torque measurement [±Ncm] 30 Timer yes Timer setting range [min] 1 - 6000 Temperature measuring range [°C] -10 - +350 Temperature measurement resolution [K] 4.05 + tolerance PT1000 (DIN IEC 751 Class A) Limit deviation temperature sensor [K] ± 0.5 + tolerance PT1000 (DIN IEC 751 Class A) Limit deviation temperature sensor [K] ± 0.5 + tolerance PT1000 (DIN IEC 751 Class A) Limit deviation distance (depend onbuilding) max. [m] 150 Dimensions (W x H x D) [mm] 86 x 352 x 230 Weight [kg] 5.2 Permissible ambient temperature [°C] 5 - 40 Permissible relative humidity [%] 80 Protection class according to DIN EN 60529 IP 40 RS 232 interface yes | Stirring element fastening | chuck |
| Chuck range diameter [mm] 0.5 - 10 Fastening on stand extension arm Extension arm length [mm] 220 Torque display yes Nominal torque [Nm] 3.20 Torque measurement trend Deviation of torque measurement [½Ncm] 30 Timer yes Timer display TFT Time setting range [min] 1 - 6000 Temperature measurement resolution [K] 0.1 Accuracy of temperature measurement [K] 0.1 Limit deviation temperature sensor [K] \$\pm\$ (0.15 + tolerance PT1000 (DIN IEC 751 Class A) Limit deviation distance (depend onbuilding) max. [m] 150 Dimensions (W x H x D) [mm] 86 x 352 x 230 Weight [kg] 5.2 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 USB interface yes USB interface yes USB interface | Connection for ext. temperature sensor | PT1000 |
| Extensing on stand extension arm Extension arm diameter [mm] 16 Extension arm length [mm] 220 Torque display yes Nominal torque [Nm] 3.20 Torque measurement trend Deviation of torque measurement [±Ncm] 30 Timer yes Timer display TFT Time setting range [min] 1-6000 Temperature measuring range [°C] 0.1 Temperature measurement resolution [K] 0.1 Accuracy of temperature sensor [K] \$\pm\$ (0.15 + 0.002x T1) Housing material alu-cast coating / thermoplastic polymer Communication distance (depend onbuilding) max. [m] 150 Dimensions (W x H x D) [mm] 86 x 352 x 230 Weight [kg] 5.2 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 USB interface yes USB interface 230 / 115 | Temperature display | yes |
| Extension arm diameter [mm] 16 Extension arm length [mm] 220 Torque display yes Mominal torque [Nm] 3.20 Torque measurement trend Deviation of torque measurement [±Ncm] 30 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 sensor [K] ± 0.5 + tolerance PT1000 (DIN IEC 751 Class A) Limit deviation temperature sensor [K] ≤ ± (0.15 + 0.002xIT) Housing material alu-cast coating / thermoplastic polymer Communication distance (depend onbuilding) max. [m] 150 Dimensions (W x H x D) [mm] 86 x 352 x 230 Weight [kg] 5.2 Permissible ambient temperature [°C] 5 - 40 Permissible relative humidity [%] 80 Protection class according to DIN EN 60529 IP 40 RS 232 interface yes Voltage [V] 230 / 115 / 100 Frequency [Hz] 50/60 <td>Chuck range diameter [mm]</td> <td>0.5 - 10</td> | Chuck range diameter [mm] | 0.5 - 10 |
| Extension arm length [mm] 220 Torque display yes Nominal torque [Nm] 3.20 Torque measurement trend Deviation of torque measurement I [±Ncm] 30 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 + 0.002xITI) Housing material alu-cast coating / thermoplastic polymer Communication distance (depend onbuilding) max. [m] 150 Dimensions (W x H x D) [mm] 86 x 352 x 230 Weight [kg] 5.2 Permissible ambient temperature [°C] 5 - 40 Permissible relative humidity [%] 80 Protection class according to DIN EN 60529 IP 40 RS 232 interface yes Voltage [V] 230 / 115 / 100 Frequency [Hz] 50/60 | Fastening on stand | extension arm |
| Torque display yes Nominal torque [Nm] 3.20 Torque measurement trend Deviation of torque measurement I [±Ncm] 30 Timer yes Timer display TFT Time setting range [min] 1 - 6000 Temperature measuring range [°C] -10 - 4350 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 + 0.002xlTI) Housing material alu-cast coating / thermoplastic polymer Communication distance (depend onbuilding) max. [m] 150 Dimensions (W x H x D) [mm] 86 x 352 x 230 Weight [kg] 5.2 Permissible ambient temperature [°C] 5 - 40 Permissible relative humidity [%] 80 Protection class according to DIN EN 60529 IP 40 RS 232 interface yes Voltage [V] 230 / 115 / 100 Frequency [Hz] 50/60 | Extension arm diameter [mm] | 16 |
| Nominal torque [Nm] 3.20 Torque measurement trend Deviation of torque measurement I [±Ncm] 30 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/IT) Housing material alu-cast coating / thermoplastic polymer Communication distance (depend onbuilding) max. [m] 150 Dimensions (W x H x D) [mm] 86 x 352 x 230 Weight [kg] 5.2 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] 230 / 115 / 100 Frequency [Hz] 50/60 | Extension arm length [mm] | 220 |
| Torque measurement trend Deviation of torque measurement I (±Ncm) 30 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 + 0.002xITI) Housing material alu-cast coating / thermoplastic polymer Communication distance (depend onbuilding) max. [m] 150 Dimensions (W x H x D) [mm] 86 x 352 x 230 Weight [kg] 5.2 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] 230 / 115 / 100 Frequency [Hz] 50/60 | Torque display | yes |
| Deviation of torque measurement I [±Ncm] 30 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 seasor [K] ±0.5 + tolerance PT1000 (DIN IEC 751 Class A) Limit deviation temperature sensor [K] ≤ ± (0.15 + 0.002xITI) Housing material alu-cast coating / thermoplastic polymer Communication distance (depend onbuilding) max. [m] 150 Dimensions (W x H x D) [mm] 86 x 352 x 230 Weight [kg] 5.2 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] 230 / 115 / 100 Frequency [Hz] 50/60 | Nominal torque [Nm] | 3.20 |
| Timer display Time setting range [min] Temperature measuring range [°C] Temperature measurement resolution [K] Accuracy of temperature measurement [K] Limit deviation temperature sensor [K] Housing material Communication distance (depend onbuilding) max. [m] Dimensions (W x H x D) [mm] Weight [kg] Permissible ambient temperature [°C] Permissible relative humidity [%] Protection class according to DIN EN 60529 USB interface Voltage [V] Frequency [Hz] S 1-6000 1 - 4000 1 - 4350 1 - 400 2 - 10 - +350 1 - 400 2 - 10 - +350 3 - 10 - +350 4 - 10 - +350 3 - 10 - +350 4 - 10 - +350 3 - 10 - +350 4 - 10 - +350 3 - 10 - +350 4 - 10 - +350 3 - 10 - +350 4 - 10 - +350 3 - 10 - +350 4 - 10 - +350 3 - 10 - +350 4 - 10 - +350 3 - 10 - +350 4 - 10 - +350 3 - 10 - +350 4 - 10 - +350 5 - 10 - +350 4 - 10 - +350 5 - 10 - +350 6 - 10 - +350 6 - 10 - +350 6 - 10 - +350 6 - 10 - +350 | Torque measurement | trend |
| 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 + 0.002xITI) Housing material alu-cast coating / thermoplastic polymer Communication distance (depend onbuilding) max. [m] 150 Dimensions (W x H x D) [mm] 86 x 352 x 230 Weight [kg] 5 - 40 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] 230 / 115 / 100 Frequency [Hz] 50/60 | Deviation of torque measurement I [±Ncm] | 30 |
| 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 + 0.002xlTl) Housing material alu-cast coating / thermoplastic polymer Communication distance (depend onbuilding) max. [m] 150 Dimensions (W x H x D) [mm] 86 x 352 x 230 Weight [kg] 5.2 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] 230 / 115 / 100 Frequency [Hz] 50/60 | Timer | yes |
| 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 + 0.002xITI) Housing material alu-cast coating / thermoplastic polymer Communication distance (depend onbuilding) max. [m] 150 Dimensions (W x H x D) [mm] 86 x 352 x 230 Weight [kg] 5.2 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] 230 / 115 / 100 Frequency [Hz] 50/60 | Timer display | TFT |
| Temperature measurement resolution [K] Accuracy of temperature measurement [K] Limit deviation temperature sensor [K] Housing material Communication distance (depend onbuilding) max. [m] Dimensions (W x H x D) [mm] Weight [kg] Permissible ambient temperature [°C] Permissible relative humidity [%] Protection class according to DIN EN 60529 RS 232 interface USB interface Voltage [V] Frequency [Hz] 0.1 ±0.5 + tolerance PT1000 (DIN IEC 751 Class A) ±0.5 + tolerance PT1000 (DIN IEC 751 Class A) ±0.5 + tolerance PT1000 (DIN IEC 751 Class A) ±0.5 + tolerance PT1000 (DIN IEC 751 Class A) ±0.5 + tolerance PT1000 (DIN IEC 751 Class A) ±0.5 + tolerance PT1000 (DIN IEC 751 Class A) ±0.5 + tolerance PT1000 (DIN IEC 751 Class A) ±0.5 + tolerance PT1000 (DIN IEC 751 Class A) ±0.5 + tolerance PT1000 (DIN IEC 751 Class A) ±0.5 + tolerance PT1000 (DIN IEC 751 Class A) ±0.5 + (0.15 + 0.002xITI) 86 x 352 x 230 Weight [kg] 5.2 Permissible ambient temperature [°C] 5 - 40 Permissible relative humidity [%] 80 Protection class according to DIN EN 60529 IP 40 RS 232 interface yes Voltage [V] 50/60 | Time setting range [min] | 1 - 6000 |
| Accuracy of temperature measurement [K] ±0.5 + tolerance PT1000 (DIN IEC 751 Class A) Limit deviation temperature sensor [K] ≤± (0.15 + 0.002xITI) Housing material alu-cast coating / thermoplastic polymer Communication distance (depend onbuilding) max. [m] 150 Dimensions (W x H x D) [mm] 86 x 352 x 230 Weight [kg] 5.2 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] 230 / 115 / 100 Frequency [Hz] 50/60 | Temperature measuring range [°C] | -10 - +350 |
| Limit deviation temperature sensor [K] $\leq \pm (0.15 + 0.002x TI)$ Housing materialalu-cast coating / thermoplastic polymerCommunication distance (depend onbuilding) max. [m]150Dimensions (W x H x D) [mm] $86 \times 352 \times 230$ Weight [kg] 5.2 Permissible ambient temperature [°C] $5 - 40$ Permissible relative humidity [%]80Protection class according to DIN EN 60529IP 40RS 232 interfaceyesUSB interfaceyesVoltage [V] $230 / 115 / 100$ Frequency [Hz] $50/60$ | Temperature measurement resolution [K] | 0.1 |
| Housing material Communication distance (depend onbuilding) max. [m] Dimensions (W x H x D) [mm] Weight [kg] Permissible ambient temperature [°C] Permissible relative humidity [%] Protection class according to DIN EN 60529 RS 232 interface USB interface Voltage [V] Frequency [Hz] alu-cast coating / thermoplastic polymer 150 86 x 352 x 230 5.2 87 88 89 19 40 19 40 230 / 115 / 100 230 / 115 / 100 50/60 | Accuracy of temperature measurement [K] | ±0.5 + tolerance PT1000 (DIN IEC 751 Class A) |
| Communication distance (depend onbuilding) max. [m] Dimensions (W x H x D) [mm] Weight [kg] 5.2 Permissible ambient temperature [°C] Permissible relative humidity [%] Protection class according to DIN EN 60529 RS 232 interface USB interface Voltage [V] Frequency [Hz] 150 86 x 352 x 230 86 x 352 x 230 19 40 80 Protection class according to DIN EN 60529 IP 40 yes Voltage [V] 50/60 | Limit deviation temperature sensor [K] | $\leq \pm (0.15 + 0.002 \text{xITI})$ |
| Dimensions (W x H x D) [mm] 86 x 352 x 230 Weight [kg] 5.2 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] 230 / 115 / 100 Frequency [Hz] 50/60 | Housing material | alu-cast coating / thermoplastic polymer |
| Weight [kg] 5.2 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] 230 / 115 / 100 Frequency [Hz] 50/60 | Communication distance (depend onbuilding) max. [m] | 150 |
| 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] 230 / 115 / 100 Frequency [Hz] 50/60 | Dimensions (W x H x D) [mm] | 86 x 352 x 230 |
| Permissible relative humidity [%] 80 Protection class according to DIN EN 60529 IP 40 RS 232 interface yes USB interface yes Voltage [V] 230 / 115 / 100 Frequency [Hz] 50/60 | Weight [kg] | 5.2 |
| Protection class according to DIN EN 60529 IP 40 RS 232 interface yes USB interface yes Voltage [V] 230 / 115 / 100 Frequency [Hz] 50/60 | Permissible ambient temperature [°C] | 5 - 40 |
| RS 232 interface yes USB interface yes Voltage [V] 230 / 115 / 100 Frequency [Hz] 50/60 | Permissible relative humidity [%] | 80 |
| USB interface yes Voltage [V] 230 / 115 / 100 Frequency [Hz] 50/60 | Protection class according to DIN EN 60529 | IP 40 |
| Voltage [V] 230 / 115 / 100 Frequency [Hz] 50/60 | RS 232 interface | yes |
| Frequency [Hz] 50/60 | USB interface | yes |
| Frequency [Hz] 50/60 | Voltage [V] | 230 / 115 / 100 |
| Power input [W] 150 | | 50/60 |
| | Power input [W] | 150 |



Pricing on any accessories shown can be found by keying the part number into the search box on our website.

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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Please contact us if this literature doesn't answer all your questions.