



designed for scientists



## MS 3 control

/// Data Sheet

Compact, universal small shaker suitable for shaking tasks with all small vessels and microtiter plates

- Wide range of attachments
- Attachment detection
- Timer with countdown function
- Stable in all speed ranges
- Sturdy zinc die cast casing
- USB connection for remote control
- Continuous or touch operation (with standard attachment)



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Two operating modes:

Mode A (safe mode with attachment detection):

The maximum speed of 3,000 rpm is only reached with the standard attachment in touch mode. When using other attachments the speed is limited to 1,300 rpm.

Mode B (without attachment detection):

A speed of 3,000 rpm is possible with all attachments, depending on the application (see accessory list in the manual).



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## Technical Data

|                                                    |                                |
|----------------------------------------------------|--------------------------------|
| Type of movement                                   | orbital                        |
| Shaking stroke [mm]                                | 4.5                            |
| Permissible shaking weight (incl. attachment) [kg] | 0.5                            |
| Motor rating input [W]                             | 10                             |
| Motor rating output [W]                            | 8                              |
| Permissible ON time [%]                            | 100                            |
| Speed min (adjustable) [rpm]                       | 100                            |
| Speed range [rpm]                                  | 100 - 3000                     |
| Speed display                                      | LCD                            |
| Speed deviation [%]                                | 1                              |
| Timer                                              | yes                            |
| Timer display                                      | LCD                            |
| Time setting min. [s]                              | 1                              |
| Time setting max. [min]                            | 3599                           |
| Operating mode                                     | timer and continuous operation |
| Touch function                                     | yes                            |
| Working with microtiter plates                     | yes                            |
| Number of microtiter plates                        | 1                              |
| Dimensions (W x H x D) [mm]                        | 148 x 63 x 205                 |
| Weight [kg]                                        | 3.16                           |
| Permissible ambient temperature [°C]               | 5 - 40                         |
| Permissible relative humidity [%]                  | 80                             |
| Protection class according to DIN EN 60529         | IP 21                          |
| RS 232 interface                                   | yes                            |
| Voltage [V]                                        | 100 - 240                      |
| Frequency [Hz]                                     | 50/60                          |
| Power input [W]                                    | 20                             |
| DC Voltage [V=]                                    | 24                             |
| Current consumption [mA]                           | 800                            |