

English

OPERATING MANUAL

Orbital Shaker with Remote Controller

SRC / CRC / MRC



WIGGENS
THE MAGIC MOTION

Congratulations!

You have made an excellent choice.

WIGGENS thanks you for the trust you have placed in us.

This operating manual has been designed to help you gain an understanding of the operation and possible applications of our instruments. For optimal utilization of all functions, we recommend that you thoroughly study this manual prior to beginning operation.

Unpacking and Inspecting

Please unpack the device carefully. Check that the package is right-side-up and then open it. Check that model of the product is one that you ordered. Check that there is no damage. If there is any damage, file a damage claim with the carrier. In the case of any damage a damage report should be requested immediately. These instructions must be followed fully for us to guarantee our full support of your claim for protecting against loss from concealed damage. The form required for filing such a claim will be provided by the carrier.

Changes without prior notification reserved

Important: keep operating manual for future use

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1. General Information

NOTE: Before operating Mini shaker with remote control, please take a few minutes to familiarize yourself with the contents of this manual.

Thank you for purchasing shaker with remote control. This operations manual contains instructions for the care of this Instrument. In order to use the instrument properly, please read this manual carefully before operation. Please keep it available for future use. Prior to the initial operation:

Please check the Instrument and the accessories when you first open the shipping carton. If you find there is damage, a discrepancy, or missing items, contact your supplier immediately

2. Introduction

Mini shaker with wired remote control is designed for the use in Incubator used in general research laboratories, especially suspension cell culture. The Microprocessor's constant monitoring system ensures accurate shaking speed. The beltless drive system minimizes noise and vibration while increasing the life span of the unit. Optional accessories are available for compatibility with a wide variety of laboratory vessels, including flasks, tubes, dishes and trays.

3. Installation

- Choose a location that is free from rapidly changing temperature conditions (away from a heating or cooling vent).
- To assure proper ventilation, allow a minimum of 5 cm of the clearance between the rear and side of the unit and the adjacent wall.
- Always ensure that the machine is installed on a level surface.
- Before plugging the machine into the outlet, ensure that the electrical specifications (listed on the serial number label on the rear side of the unit) matches the electrical specifications of your outlet.
- Always
 - Avoid a direct ray and light.
 - Avoid dust air.
 - Avoid connecting Shaker with Control before turning on the main power (It causes unexpected error)
 - Avoid discordance between Shaker's voltage and Incubator's voltage
- Place the remote controller out of incubator or instrument which the shaker is placed in. Locate remote controller at flat surface like a table near incubator, top of incubator or attach remote controller on the wall of incubator, chamber with magnets.

***Insert the both edge of plastic strap into vent hole of remote controller.**

4. Specification



Items	SRC	CRC	MRC
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Order No.	W6100100	W6100200	W6100300
Motion	Orbital	Orbital	Orbital
Speed range	30~300pm (No Load)	30~300pm (No Load)	30~300pm (No Load)
Accuracy (rpm)	±1 rpm	±1 rpm	±1 rpm
Orbital diameter (mm)	25 mm	25 mm	25 mm
Time range	Continuous or up to 99 hours 59 min		
Time increment	1 minute	1 minute	1 minute
Control	Microprocessor Digital	Microprocessor Digital	Microprocessor Digital
Motor	Brushless DC Motor	Brushless DC Motor	Brushless DC Motor
Drive system	Magnetic Drive	Magnetic Drive	Magnetic Drive
Display of controller	LED display	LED display	LED display
Size and weight of controller	155×95×25mm / 0.5kg		
Shaker size (mm)	300×345×90	450×390×120	465×540×130
Platform size (mm)	300×330 mm	440×370 mm	455×455 mm
Weight	7.5kg	14kg	25kg
Power	110/220V-50/60Hz		

Load capacity

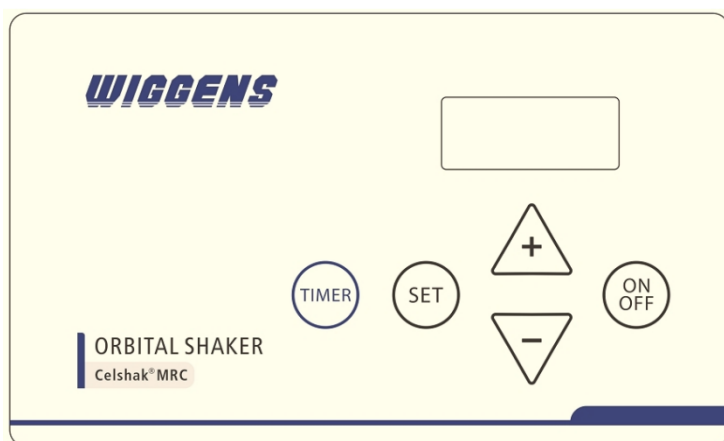
Model / Size of conical flask	SRC	CRC	MRC
100ml	16ea	23ea	36ea
250ml	9ea	10ea	23ea
500ml	5ea	6ea	16ea
1000ml	4ea	5ea	9ea
2000ml	1ea	2ea	4ea






5. Feature

1. Constant Monitoring System (CMS) ensures precise control over speed
2. Extremely compact
3. Brushless DC motor and beltless drive system minimizes noise and vibration.
4. Digital control panel displays speed and time.
5. Wide variety of optional accessories available for most common laboratory vessels
6. In Incubator, convenient control without opening door

6. Operation

6.1. Control



	Key, set the duration time for the shaking
	Key, set and save the setpoint
	Key, >Up <speed or time – increase setpoint Push key quickly for single steps, Keep key pressed for fast change.
	Key, >Up <speed or time – decrease setpoint Push key quickly for single steps, Keep key pressed for fast change.
	Key: >ON/OFF< Start / Stop (speed and time)

1. Install the shaker in the proper place of Incubator or any container.
2. Place the power switch (located on the rear of the controller) in the "ON" position (the display will turn on).
3. Press the "Timer" one time, the LED displays "on". Press the "SET" key, by using the UP (▲) and DOWN (▼) keys to adjust "ON" and "OFF". Press the "SET" key to save the settings. "ON" means auto-start activated, "OFF" means auto-start closed.
4. To set the desired time, Keep pressing the "Timer" key two times until LED displays current set time "00:00". Press the "SET" key. The hour area will blink continuously.



It can be adjusted by using the UP (▲) and DOWN (▼) keys. Once the desired time is displayed, for example 20 min



press the "SET" key to save the settings



Press ON/OFF key to start the shaking

When the set time is over, stop shaking and display the end



*If you do not press the "SET" key to store the desired time the new time will not be saved and the set time will return to the prior setting.

5. To set the desired mixing speed, Press the "SET" key located underneath the time/speed display. The set speed is displayed and will blink continuously.



It can be adjusted by using the UP (▲) and DOWN (▼) keys. Once the desired speed is displayed, for example 300 rpm



Once the desired speed is displayed, press the "SET" key to save.



*If you do not press the "SET" key to store the desired speed the new speed will not be saved and the set speed will return to the prior setting.

6.2. Error Messages



1. This message "rErrL" represents a low speed speed error
 - Check the platform to ensure that nothing is obstructing it's movement
 - Check the set speed to make sure that it is within the acceptable range(30 to 300rpm)

Solution: Use your hand to move platform. While the platform is moving press and hold the "STOP" and "SET" keys simultaneously.



2. This message " rErrH " represents a high speed error.
 - Removal of load or partial load.

Solution : If a vessel has been removed, replace the vessel or restart the machine.



3. This message, "Error" represents an electrical error.
 - Machine has lost power during the run.

Solution: Check that the power cord is properly installed and restart or check that the circuit has not been interrupted and restart.

4. Display will not illuminate
 - (1) Electrical connection - Please disconnect main power cord and connect again.
 - (2) Voltage supply - Please check to voltage.
 - (3) Check the fuse
 - (4) Verify voltage on the serial number label of the machine
 - (5) Defective power switch (check voltage at switch)

7. Maintenance

The platform of Mini shaker with remote control should be cleaned regularly with a soft cloth dampened with water or alcohol. (Always ensure that the machine has been powered down prior to cleaning.

In the event of a spillage: Power down the unit, remove the platform and dry the internal chamber with a soft cloth. DO NOT attempt to operate the unit until the spillage had been properly dried.

8. Service

8.1. Warranty

In accordance with WIGGENS warranty conditions, the warranty period is 12 months. For claims under the warranty please contact your local dealer. You may also send the machine direct to our works, enclosing the delivery invoice and giving reasons for the claim. You will be liable for freight costs. The warranty does not cover wearing parts, nor does it apply to faults resulting from improper use or insufficient care and maintenance contrary to the instructions in this operating manual.

WIGGENS reserves the right to decide the validity of any warranty claim. In case of faults arising either due to faulty materials or workmanship, parts will be repaired or replaced free of charge.

Any other compensation claims, such as consumables, damages caused by corrosion or accidental breakage, are excluded from this guarantee.

This warranty may only be altered by a specifically published amendment. No individual has authorization to alter the provisions of this warranty policy or its amendments.

8.2. Contact /Technical Service

If your device is not working properly:

- ⇒ Please inform *WIGGENS* Instruments by using our contact information.
You have contacted *WIGGENS* Instruments?
- ⇒ Copy and complete the Conformation of condition of unit from these operating instructions.
- ⇒ Please repack the device appropriately for transport and send to *WIGGENS* Instruments together with the Confirmation of condition of unit.

Our contact details

WIGGENS GmbH

Add: Wiescher Str. 11a, 42277 Wuppertal Germany
Tel.: +49 202 373 29 58-0
info@wiggens.com

WIGGENS China

Room 426, Hall A, Office Building M8, No.1 Jiuxianqiao
East Road, Chaoyang District, Beijing 100015, China
Tel: +86 400-809-2068
service@wiggens.com
www.wiggens.com

Confirmation of condition of unit

In the case of repair, copy and complete the Confirmation of condition of unit and send it to *WIGGENS* Instruments.

1. Details about the unit

Product number

Serial number

Reason for repair

2. Has the device been cleaned, decontaminated/sterilized?

Yes

☐

No

☐

3. Is the unit in a condition which does not represent any health threats for the staff of our service department?

Yes

☐

No

☐

If not, which substances has the unit come into contact with?

4. Legally binding declaration

The customer is aware of being legally liable to *WIGGENS* Instruments for any damages arising from incomplete and incorrect information.

Date

Signature

Company stamp

Please Note

The shipper is responsible for the return of the goods in well-packed condition, suitable for the mode of transport.

Sender information

Name

Company

Department, research group Street

Zip code, city

Country

Phone

E-mail

**WIGGENS GmbH**

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