

CONTECH ORBITAL SHAKER CLS-01 O

INSTRUCTION MANUAL



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CONTECH
Instruments Ltd.

1. INTRODUCTION

CONTECH Digital orbital Shakers are intended for shaking microliter plates, tubes, bottles, flasks, dishes and other laboratory vessels. They use Brush Less DC motors to accurately and silently control the speed, independent of the load to achieve constant shaking.

RPM and TIME can be set through rotary encoders, according to the requirement.

FEATURES :

- 1 Speed & time adjustment.
- 2 Backlite display for viewing speed & time.
3. Platform options for different types of glasswears.
- 4 Brushless DC motor for maintenance free operation & long life.
- 5 Overspeed protection.
- 6 Designed for continuous or time based operation.

2. TECHNICAL SPECIFICATIONS

ORBITAL DIMENSION	: 10mm
MAXIMUM LOAD(with platform)	: 7.5kg
SPEED	: 100 to 500 RPM in steps of 10
TIMER	: 1 to 1200min
WEIGHT	: 15kg
POWER SUPPLY	: 230V AC, 50Hz, 30W
DIMENSIONS (mm)	: 355 (W) x 420 (L) x 215 (H)

3. UNPACKING & INSTALLATION

Unpacking:

Open the box and check for any damage or missing parts. Save the packing container for future use.

Electrical requirements:

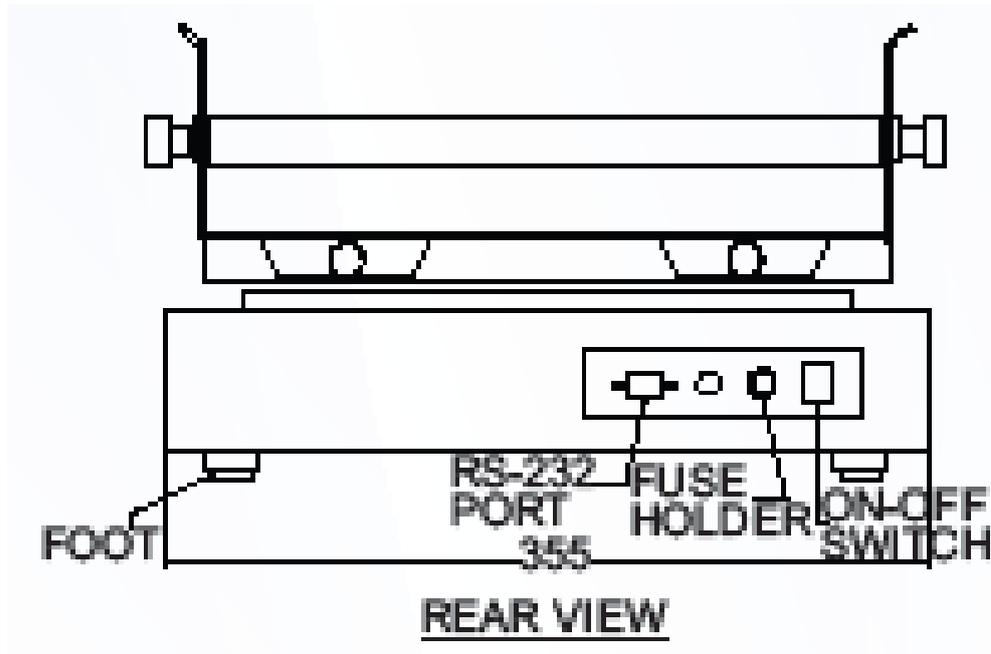
The instrument requires very stable power. It works on 230V AC supply with PROPER EARTHING. The power outlet used for the scale should not be shared with any other devices that draw current in inconsistent manner like Air conditioner or refrigerator etc.

Environmental requirements:

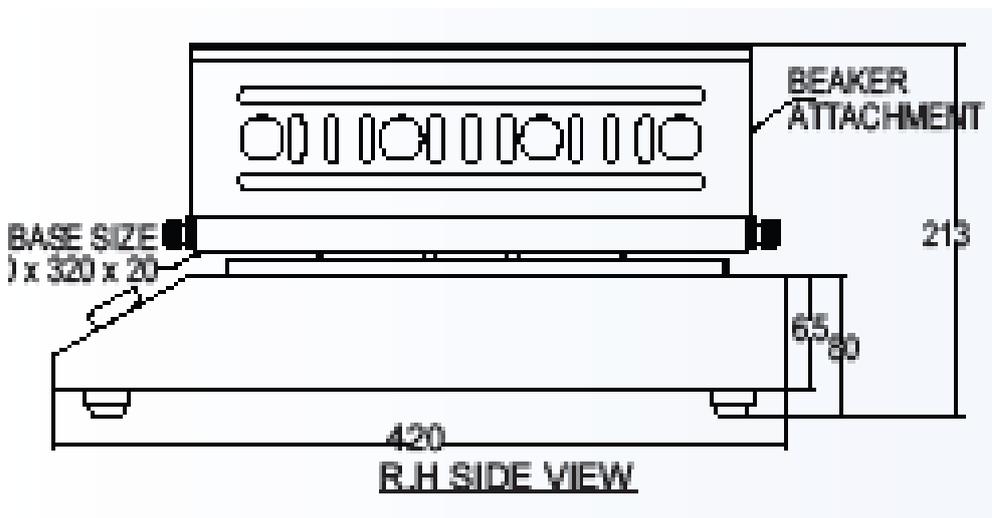
For best results, the scale should be placed on a smooth, stable and vibration free, level surface.

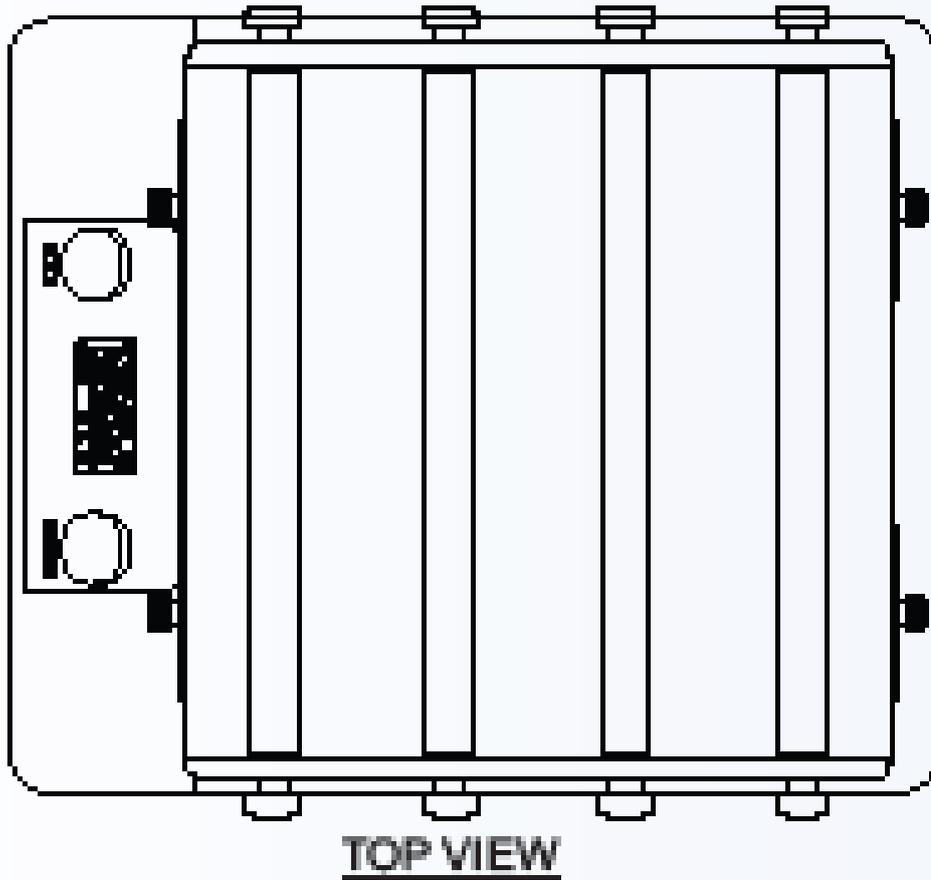
Avoid using the instrument in conditions where there is wide fluctuations in room temperature and humidity. The instrument should not be exposed to direct sunlight or radiated heat.

STARTING THE SHAKER:



Attach the beaker attachment with the 4 holder screws as shown in the figure below





Power is supplied to the instrument through a mains cord attached to it.

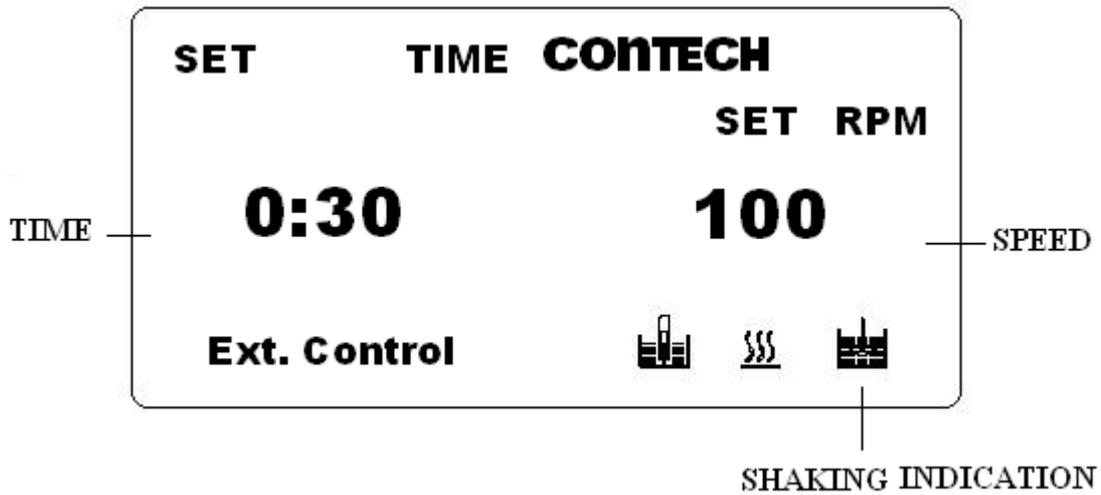


Connect the mains cord to an AC mains outlet with proper earthing.

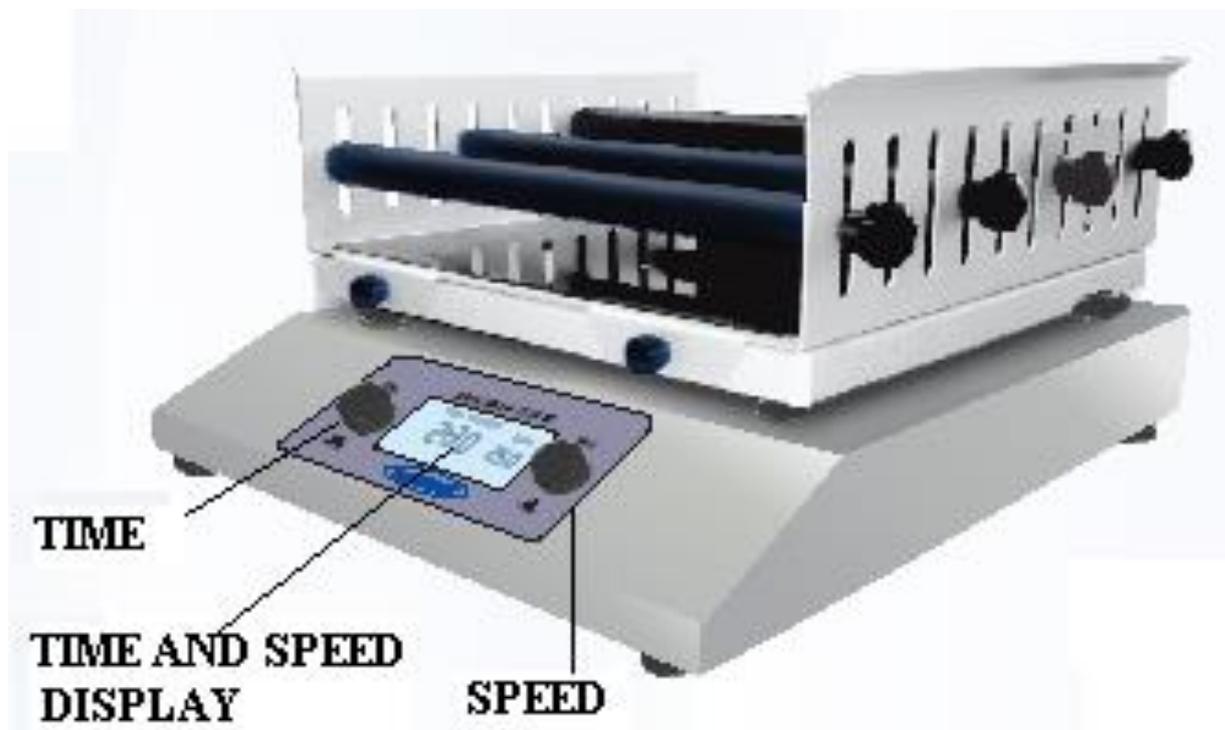


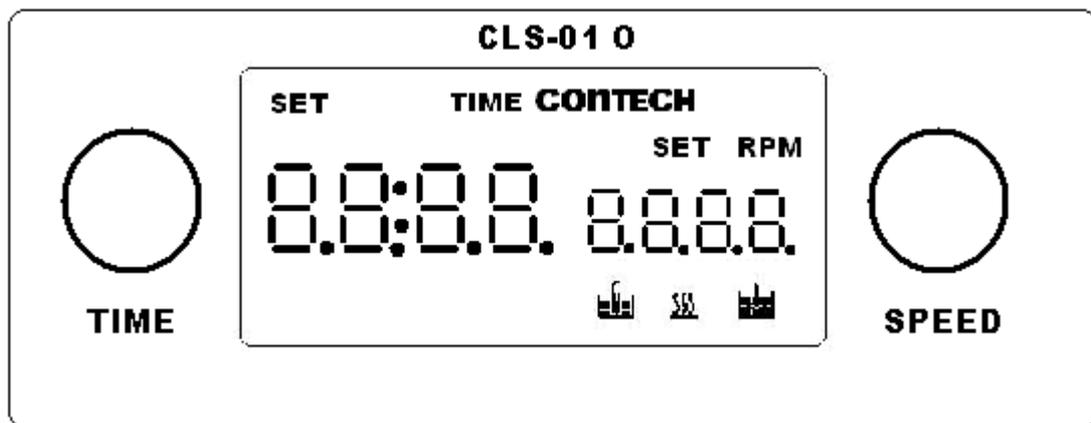
TAKE CARE WHEN PLUGGING THE MAINS CORD TO THE SOCKET. DO NOT TOUCH THE CABLE WITH WET HANDS.

Switch on the instrument with the On/Off Switch provided on the rear side panel
 Instrument checks the display and displays model no and subsequently displays



OPERATION :



Front Panel:

Time Knob : Turn this knob to change time and press it to start shaking for timed Operations.

Once the set time is elapsed, shaking will stop.

SHAKING CAN BE STOPPED ANY TIME BY PRESSING **TIME** KNOB.

Speed knob : Turn this knob to change speed

Press speed knob to start / stop shaking for continuous shaking.

SHAKING CAN BE STOPPED ANY TIME BY PRESSING **SPEED** KNOB.

 sign illuminates once shaking begins.

GENERAL PRECAUTIONS

- Always plug the unit into a properly grounded and fused outlet.
- Do not use the shaker near water sources. Ensure that water will not fall on the shaker, especially during cleaning procedures.
- Do not use shaker in a caustic or explosive atmosphere.
- There are no user serviceable parts in the unit. Opening the unit may void the warranty. In case of a malfunction or liquid being spilled into the unit, unplug the device from its power outlet and contact our service department.



Do not shake inflammable or explosive samples or use the unit in an inflammable or explosive environment.

The housing of the Shaker Unit can be removed from the main unit and can be cleaned with dry cloth. A damp (not wet) cloth is recommended.

Do not use any aggressive or abrasive cleaners (acetone, nitro, polish, etc.) because its surface can be permanently damaged.



Before cleaning the device, unplug main cord from wall socket.

Notes :

For sales & service contact :

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