



# ***Dura-Mag™ Magnetic Stirrer Motion Alarm Option***

***For:***

***CLS-4100-A2***

***CLS-4100-A4***

***CLS-4100-A6***

***CLS-4100-A9***



## **OPERATIONS MANUAL**

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REV: E

## FEATURES

1. 85 dB internal audible buzzer
2. Serial port for external alarm configuration (external alarm is not supplied)
3. Alarm state is initiated if any of the magnets stops spinning
4. Convenient alarm reset button

## GENERAL Description

The Chemglass Life Science's factory installed Motion Alarm option monitors the physical rotation of the stirrer mechanism. When the circuit does not detect motion within the preset time period, the alarm condition is activated. The alarm output activates the audible alarm, and the isolated relay contacts are switched. Normally closed and normally open contacts are wired to a 9 pin sub D connector at the rear of the chassis. The contacts are wired for fail safe operation.

## SPECIFICATIONS

Supply Voltage - 120VAC to 240VAC +/-10%, 50-60 Hz connected to a CG Life Sciences 24VDC power supply

Alarm output connection - DB9 female connector -

### Unit running:

Pin #1= common  
Pin #2= CLOSED contact  
Pin #5= OPEN contact

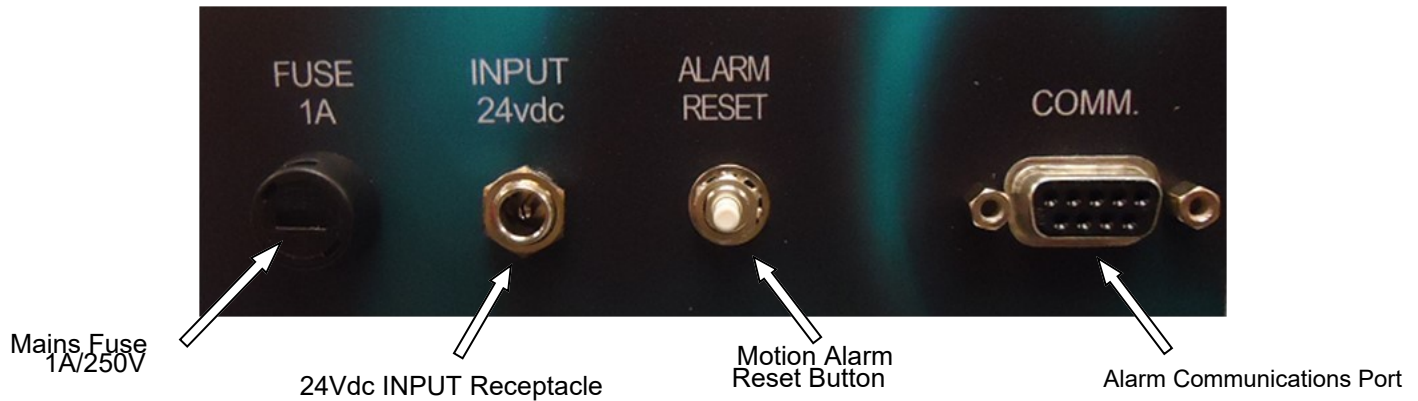
### Unit in Alarm state:

Pin #1= common  
Pin #2= OPEN contact  
Pin #5= CLOSED contact

## SET-UP

(See Figure 1)

1. Connect one end of a 9-pin serial communications cable to the “COMM.” receptacle located on the rear panel of the magnetic stirrer. (See pin configuration under SPECIFICATIONS).
2. Connect the other end to a suitable alarm system, i.e. house alarm, computer system, or other system.



**Figure 1—Rear Panel of Magnetic Stirrer**

## OPERATION

The alarm circuit is automatically started when the main power switch is turned on. The alarm circuit operates at any RPM setting between 25 - 400.

The “ALARM RESET” push button is located on the rear panel – see figure 1. When the alarm has been activated, pressing this button will silence the audible alarm and switch the alarm output relay. The alarm circuit remains off until the unit is powered OFF then ON, or pulses are once again received by the internal sensor.

## TROUBLESHOOTING

An alarm condition could represent a malfunction in the motor circuit, power supply, or more likely, a broken or slipping belt. Verify main drive belt. See Figure 2 (Inside Magnetic Stirrer)

## Replacement Parts

P/N: ELE-045-020    Description: Main drive belt for all magnetic stirrers from 08/15/14 to 3/21/17.

P/N: ELE-045-023    Description: Main drive belt for all magnetic stirrers as of 03/22/17.

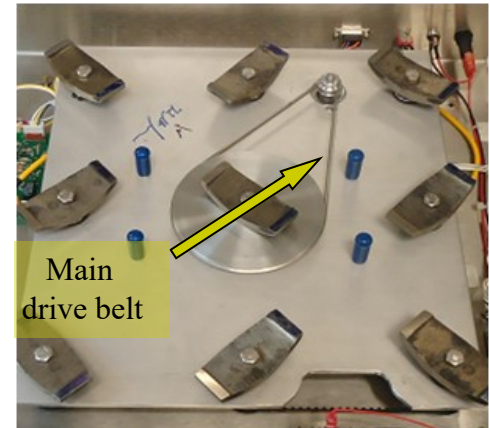


Figure 2

### Warranty

Chemglass, Inc. guarantees this unit against defects in material and workmanship for a period of one year from the date of sale. If the unit should malfunction, it must be returned for evaluation. If the unit is determined to have a defect in materials or workmanship, then it will be repaired or replaced at no charge. Tampering with the unit or damage resulting from excessive current, heat, moisture, vibration, corrosive materials, or misuse will void this warranty. Programming changes or reconfigurations are not covered under warranty.

### **Return Authorization:**

CGLS must authorize any return of product. Please contact a customer service representative via the correspondence listed below to obtain a Return Merchandise Authorization (RMA) number. The purchaser is responsible for all packing and shipping to CGLS. If the equipment or material came in contact or was proximate to any biological organism, toxic or corrosive material, or any agent reasonably deemed to be potentially harmful, it must be cleaned and decontaminated prior to receipt by CGLS. The purchaser is obligated to disclose fully in writing, the cleaning and decontamination method. We reserve the right not to accept any unauthorized or potentially harmful shipment.

### Correspondence:

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