



For:

CLS-4100-02

CLS-4100-04

CLS-4100-06

CLS-4100-09

Dura-Mag™ Magnetic Stirrer Motion Alarm Option



OPERATIONS MANUAL

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REV: B

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.

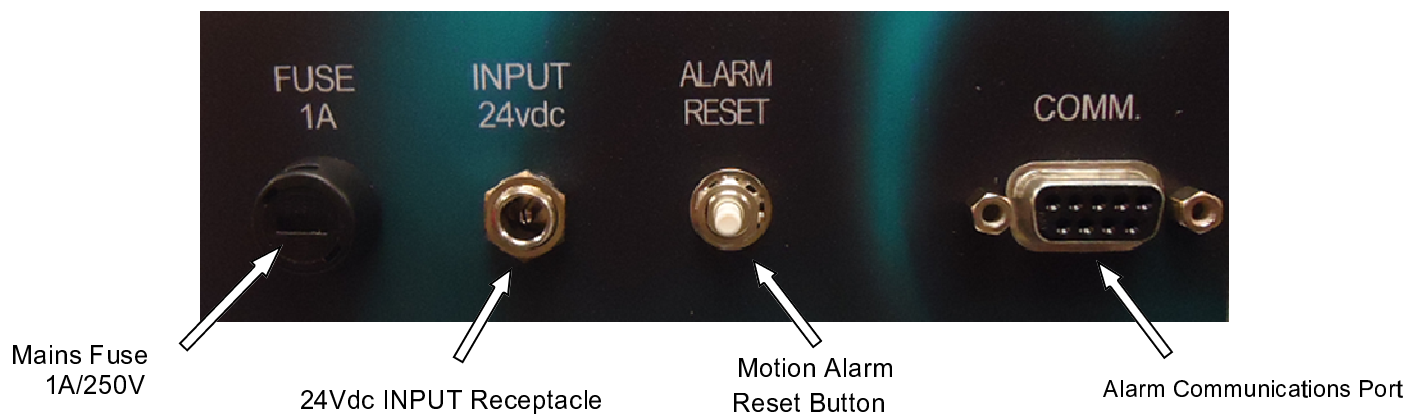


Figure 1—Rear Panel of Magnetic Stirrer

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
as 08/15/14

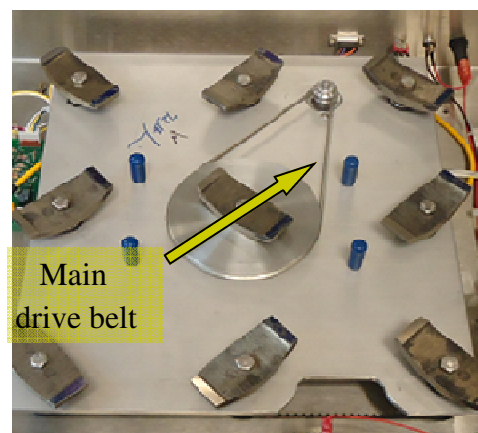


Figure 2



Warranty

Chemglass, Inc. guarantees this unit against defects in material and workmanship for a period of two years 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.

To return this item, within or beyond the warranty period, advise the Chemglass Electronic department of the issue and they will provide you with a return authorization number. The unit will be evaluated and repaired as required in accordance to the warranty. If it is beyond the warranty period or not covered under warranty, a repair quote will be issued to user.

Please contact the Chemglass Electronics department with warranty repair information.

Chemglass Electronics department:

Tel: 1-800-843-1794 ext. 2124

Fax: 1-800-922-4361

Email: electronics@chemglass.com