

# Pilot Motor Control

## User Manual

1430 North West Blvd.  
Vineland, NJ 08362-0688  
Toll Free: 1-800-223-4524  
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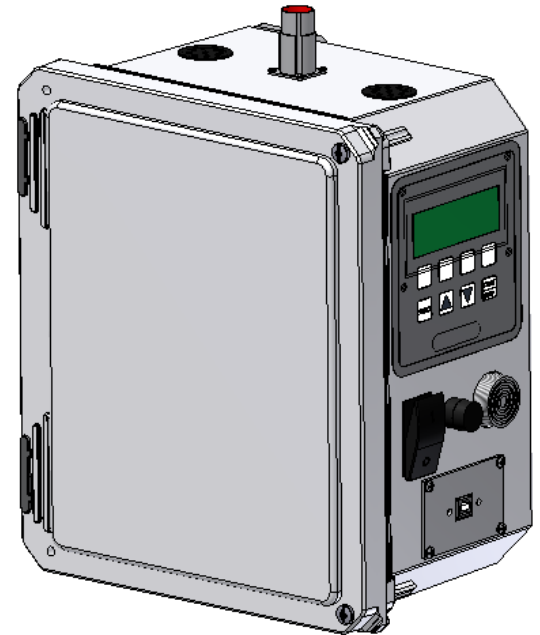


### Pilot Motor Drive

The pilot motor drive uses the latest brushless technology and is housed in a fiberglass enclosure. It features a 4-line LCD backlit display which shows speed, time, direction and torque. Torque can be zeroed out while the system is running to monitor viscosity changes.

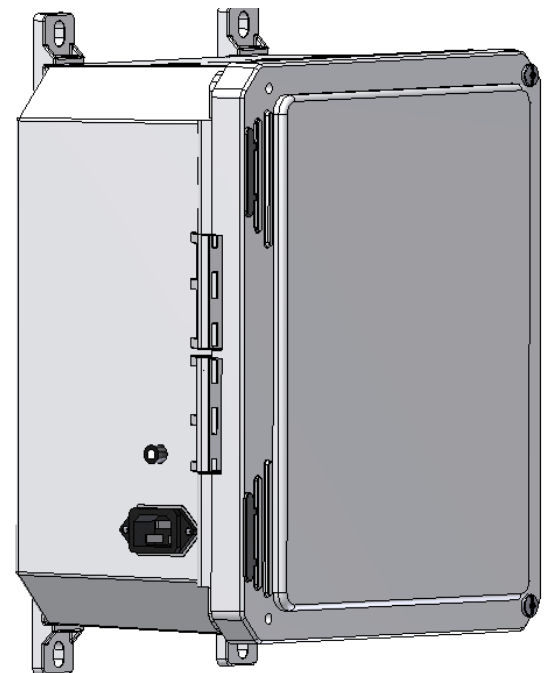
### Specifications: Motor Control Box

- Micro-processor based control technology
- Speed 30 to 500 rpm, Speed Display Resolution: 1 RPM, Speed Setting Increment: 5 RPM
- 4-line back-lit LCD display
- Built-in digital timer (seconds: 1-60, minutes: 1-60, hours: 1-250)
- Elapsed timer
- Communication port (USB)
- Membrane switch user interface (8-button)
- Optional software for real time data acquisition
- Input Voltage: 120VAC, IEC 60320 input.
- Output Voltage: 24VDC, 15Amps max.
- Audible Alarm
- Box Size: 10" W x 11.5" T x 6" D



### Specifications: Motor

- 3/8hp Brushless 24VDC motor,
- 30 to 500 rpm
- 35 lb-in torque
- 6' motor cable



Consult factory for mounting hardware of motor and control box.

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### **Button Description:**

Select – Navigate through menu screens.

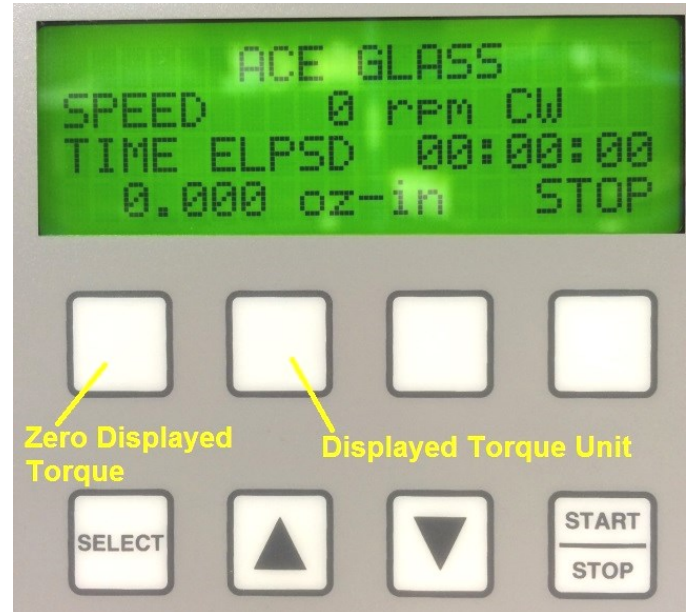
UP Arrow – Increase value of active selection.

Down Arrow – Decrease value of active selection.

Start/Stop – Start/Stop motor operation.

Zero Displayed Torque – This button will zero out the displayed torque value on the display after motor has been started.

Displayed Torque – Changes displayed torque value between: oz-in (default value), lb-in, g-cm, and N-m.



**Menu Screen 1:** Use the UP/DOWN arrow buttons to change the motor direction.



**Menu Screen 2:** Press the button that is located under each value (Hrs, Mins, Secs, Clear) to make the active region to make changes for the timer. Use to the UP/DOWN buttons to change value.



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### Operation:

Connect the motor extension cords from the motor to the control. Both plugs are polarized for proper connection between motor control and motor. Plug the motor control AC power cord into a properly grounded and polarized receptacle. Use the UP/DOWN arrow buttons to adjust the motor speed. Pressing the UP/DOWN button one time will increment the speed value by single digits. Holding the UP/DOWN arrow button will increment at a faster rate. The motor will automatically start after removing finger from either the UP/DOWN button. If the motor has been stopped after being in the run mode it will retain the last motor speed setting. Press the start button and motor will return to the last speed setting value. If the input power to the control has been cycled it will not retain the last speed value.

**Torque Unit Settings:** Press the furthest left button that is not labeled to zero out torque on the display, see figure 1. Press the button to the right of the zero out button to change between the displayed torque units.

### Torque Screens:



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### **Maintenance:**

The motor and control box should be protected from spills, mechanical damage and corrosive atmospheres so far as possible. Any spills should be cleaned quickly and any damage should be repaired immediately.

### **Spare Parts:**

Spare parts are generally available from the factory. Consult Ace Glass for part numbers and pricing.

### **Limited Warranty:**

Ace Glass warrants products of its manufacture to be free from defects in material and workmanship **for one year** and agrees to repair or replace without charge any products found defective upon examination at the factory. With proper care and operation, Ace Glass products will give long and efficient service. Chemical spillage, overheating, overloading and general misuse will greatly reduce the service life. Ace Glass is not responsible for damage to apparatus due to improper installation or through attempts to operate the apparatus beyond its rated capacity, intentional or otherwise. Normally expendable parts are not covered by this warranty.

In the event of an incident due to a defective replacement component, Ace Glass will accept responsibility only if the component was defective from the outset. Ace Glass reserves the right to deny responsibility for the incident if the user fails to comply with any instructions provided by using spare parts, which are not guaranteed. Ace Glass reserves the right to update, and or change designs with no prior notification.

**APART FROM SUCH WRITTEN STATEMENT OF WARRANTY, THERE ARE NO WARRANTIES, EXPRESSED, IMPLIED OR STATUTORY WHICH EXTEND BEYOND THE DESCRIPTION OF THE PRODUCTS ON THE FACE HEREOF.**

Ace Glass products are intended only for legal and legitimate purposes in commercial, laboratory and industrial settings. Ace Glass reserves the right to make product refinements without prior notice.

### **Returns:**

Call or fax Customer Service for a Return Goods Authorization (RGA) number before returning a product.