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FLTCON-1

User Manual

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Have any queries? Our expert engineers are here to help!



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SAFETY PRECAUTIONS

When installing and using your Progressive Automations control box, basic safety precautions should always be followed. Please read all safety precautions thoroughly and be familiar with all functions of the product before use. Apply all other relevant precautions when operating electrical and moving mechanical devices.

DANGER

To reduce the risk of electrical shock and injuries:

- Do not attempt to modify or repair the control box.
- Avoid using the control box in environments with explosive gases or flammable materials.
- Avoid using the control box beyond its specified Ingress Protection rating.
- Make sure that the power source is properly grounded. Neglecting proper grounding can result in a dangerous electrical hazard.

WARNING

To reduce personal harm and injury:

- Follow recommended load ratings and specifications for the control box.
- Avoid leaving the control box unattended during operation.
- Avoid operating the control box in areas with high levels of airborne contaminants.
- Ensure a clear path for full extension and retraction of the control box.
- Keep hands and body parts clear of the control box while it is in motion.
- Exercise caution around pinch points and moving components during the control box's operation.
- Keep all loose clothing, jewelry, and personal items away from the control box's moving parts.

Operating Notes

Warranty

Any attempts to disassemble or tamper with the control box's internal components or operation outside of the advertised usage limitations will result in voiding the product's warranty. For more information on our warranty terms, visit:

<https://www.progressiveautomations.com/pages/warranty-terms>

Force Restrictions

Control boxes must be used within the specified force rating outlined in this documentation. Load must be evenly distributed. Exceeding the recommended force rating may result in failure of the control box. It may also damage the product and void the warranty. Please note that the weight of the load does not always equal the total force due to mechanical advantage, wherein the force may increase or decrease depending on the application.

Operation Time

Control boxes must be operated within the specified operation time and frequency. Exceeding the duty cycle rating can significantly reduce the control box's expected lifespan and will void the warranty.

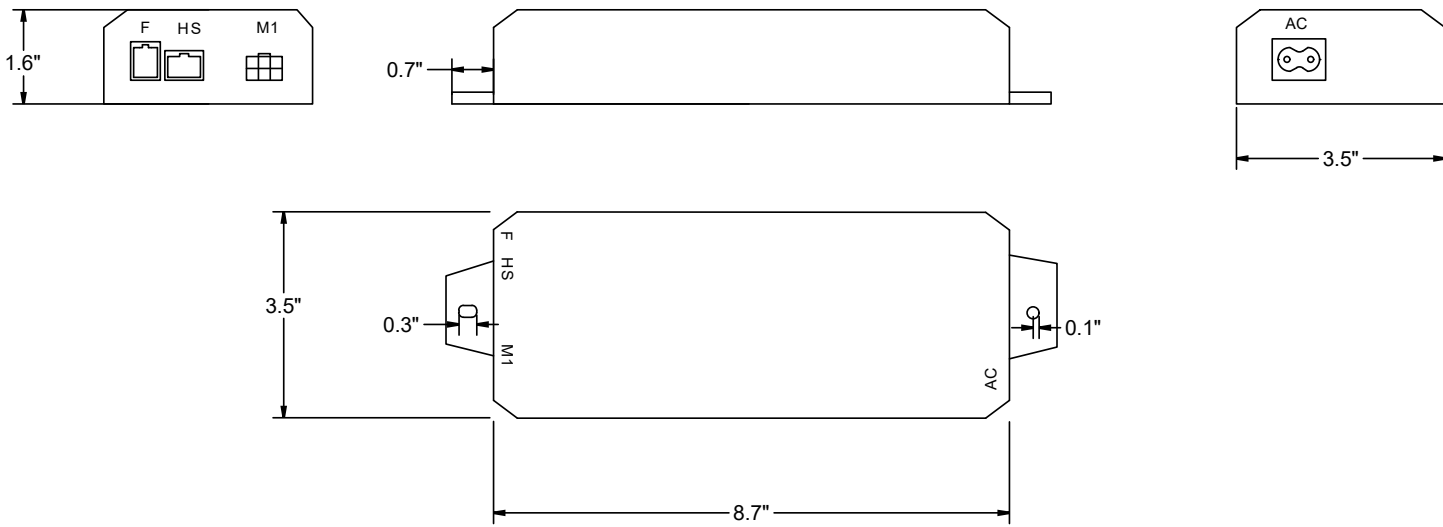
SPECIFICATIONS

Specifications

Control Type	Wired Remote (Not Included)
Input Voltage	110VAC (Power Cable Included)
Output Voltage	24VDC
Current	8A
Number of Channels	1
Feedback Input	Hall Effect Sensor
Duty Cycle	10% (Max. 2 mins on, 18 mins off)
Certifications	CE, FCC
Unit Weight	1.00lbs
Size (L x H x W)	8.7" x 1.6" x 3.5"
Warranty	18 Months

DIMENSIONS

Diagram



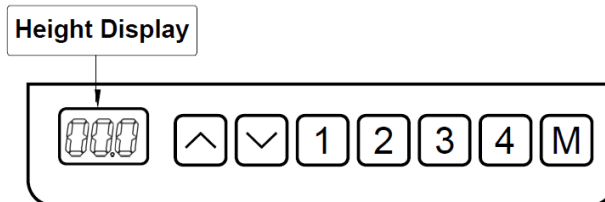
OPERATIONS

REMOTE BUTTONS

MEMORY PRESET PROGRAMMING

1. Use the UP or DOWN button to bring the actuator to the desired height.
2. Press M button once, followed by the desired Memory Preset button.

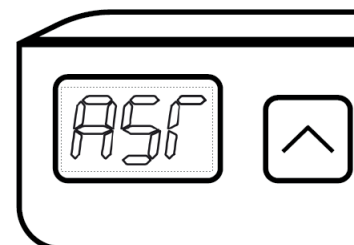
	UP - Hold to move actuator up
	DOWN - Hold to move actuator down
	Memory Preset 1
	Memory Preset 5
	Memory Preset 3
	Memory Preset 4
	Memory Preset programming button



RESET PROCEDURE

WARNING: During the Reset Procedure, the actuator will retract 7mm below the lowest normal operating height. Please ensure that no obstacles impede this motion of travel.

1. If remote height display shows "ASr", skip to step 4.
2. Move the actuator to the lowest position using DOWN button.
3. Once at the lowest position, press and hold the DOWN button on the remote until height display shows "ASr". Release the DOWN button.
4. Press and hold the DOWN button, the actuator will move down 0.28 inches below the lowest normal operating position. Continue to hold the DOWN button until the actuator moves back up to the lowest normal operating position. Release the DOWN button.
5. The actuator height will be displayed on the remote height display and is now ready for use.



HEIGHT CALIBRATION

Calibrate the Remote height display to match actual height of actuator which may differ depending on feet height or tabletop thickness.

1. Move the actuator to the lowest position using the DOWN button. Measure the height from the floor surface being lifted. If measured height does not match the height on the remote height display, continue with the following steps.
2. Press and hold the DOWN button until height display shows "ASr". Release the DOWN button.
3. Press and hold the M button until the height display flashes.
4. Use the UP and DOWN buttons to match the height display with your measured height.
5. Once the correct value is displayed, do not touch the remote until the height display flashes "ASr". Hold the

DOWN button until the actuator slightly lowers, then slightly rises back up. Release when the actuator height is displayed on the remote.

REMOTE CONTROL LOCK

To Lock

Press and hold the M button. The remote height display will show "S-", then it will show the actuator height, and finally it will display "LOC". The remote control buttons are now locked.

To Unlock

Press and hold the M button until the height display shows the actuator height.

HEIGHT DISPLAY UNITS (inch or centimeter)

1. Move the actuator to the lowest position using the DOWN button.
2. Press and hold the DOWN button until the display shows "ASr". Release the DOWN button.
3. Hold the 2 button to select through the options. Release once the display shows the code corresponding to the desired setting.
"10.3" – centimeters
"10.4" – inches
Once the selection is made, "ASr" will show up on the display.
4. Hold the DOWN button until the actuator slightly lowers, then slightly rises back up. Release when the actuator height is displayed on the remote.

COLLISION DETECTION SENSITIVITY

1. Move the actuator to the lowest position using the DOWN button.
2. Press and hold the DOWN button until the display shows "ASr". Release the DOWN button.
3. Hold the UP button to select through the options. Release once the display shows the code corresponding to the desired setting.
"10.5" - 22lbs
"10.6" - 33lbs
"10.7" - 55lbs
Once the selection is made, "ASr" will show up on the display.
4. Hold the DOWN button until the actuator slightly lowers, then slightly rises back up. Release when the actuator height is displayed on the remote.

MEMORY PRESET ONE-TOUCH and CONSTANT-TOUCH MODE

One-Touch mode is the default setting. The memory preset button may be pressed once without holding and the actuator will move to the desired height. Any button may be pressed to stop movement.

Constant-Touch mode requires you to hold the memory preset button until the desired height is reached. Releasing the memory preset button earlier will make the actuator stop immediately.

1. Move the actuator to the lowest position using the DOWN button.
2. Press and hold the DOWN button until the display shows "ASr". Release the DOWN button.
3. Hold the 1 button to select through the options. Release once the display shows the code corresponding to the desired setting.
"10.1" - One-Touch
"10.2" - Constant-Touch

Once the selection is made, "ASr" will show up on the display.

5. Hold the DOWN button until the actuator slightly lowers, then slightly rises back up. Release when the actuator height is displayed on the remote.

MINIMUM AND MAXIMUM HEIGHT LIMIT

Resetting to Default Minimum and Maximum Height Limit

1. Press the M button once and wait for the display to show "S-".
2. Hold the M button until the display shows "555" and then release.

Setting Maximum Height Limit

1. Use the UP or DOWN button to bring the actuator to the desired maximum height limit.
2. Press the M button once. "S-" will appear on the display screen. Press the UP button once, the "S-" will flash once.
3. Hold the M button until the display shows "999". Release the M button.

Setting Minimum Height Limit

1. Use the UP or DOWN button to bring the actuator to the desired minimum height limit.
2. Press the M button once. "S-" will appear on the display screen. Press the DOWN button once, the "S-" will flash once.
3. Hold the M button until the display shows "000". Release the M button.

TROUBLESHOOTING

Troubleshooting Guide		
Problem	Possible Cause	Corrective Action
Remote LED is off.	Low power mode activated	Press any button on the remote and LED will activate.
	Connection issue	Disconnect and reconnect the RJ-45 remote connector. Ensure connection is secure and cable is not damaged.
Actuators do not move when motion control buttons are pressed.	Limit switch reached	Follow "Setting Limit Switches" instructions to remove the programmed limit (FLT-02 only). If maximum or minimum height limit has been reached, please move the system in the opposite direction.
	Connection issue	Disconnect and reconnect the Actuators, Control Box, AC Power, and Remote.
Actuators travel at a significantly slower speed than rated specification.	Weight issue	Ensure weight capacity has not exceeded the maximum load rating.
Unusual noise during travel.	Weight issue	Ensure weight capacity has not exceeded the maximum load rating.
Actuators stop abruptly during travel.	Obstacle	Ensure there are no obstacles in the path of the actuators. If the movement continues to fail, initiate the Reset Procedure.
Actuators are not level.	Out of sync	Disconnect and reconnect all cables (Actuator, Control Box, AC Power, and Remote), then initiate the Reset Procedure.

Error Codes (Remotes with LED Display)		
Error Code	Error Summary	Description
E01	M1 overcurrent protection	All actuators stop moving and remote displays E01-E04. Ensure that the total weight capacity of the actuators has not been exceeded and that no obstacles obstruct the movement. Press any key and remote will display RST, initiate the Reset Procedure. If the issue persists, disconnect and reconnect all of the actuators, including the main power. Repeat the Reset Procedure.
E02	M2 overcurrent protection	
E03	M3 overcurrent protection	
E04	M4 overcurrent protection	
E07	M1 hall error	All actuators stop moving and remote displays E07-E10. Ensure that all actuators are still properly connected to the control box. Check to see if any cables have been damaged. Press any key and remote will display RST, initiate the Reset Procedure. If the issue persists, disconnect and reconnect all of the actuators, including the main power. Repeat the Reset Procedure.
E08	M2 hall error	
E09	M3 hall error	
E10	M4 hall error	
H01	Overheat/duty cycle protection	All actuators stop moving, remote displays H01 (if LED screen available). Allow the system to rest for 16 minutes, use normally. Follow the Duty Cycle rating to ensure no issues arise from overheating.