

## Performance Concepts

### V2. Drapery Motor Programming Instructions

#### Features:

- Powerful 24VDC internal motor.
- Slow start/stop feature eliminates abrupt movements and start up noise.
- Constant speed feature maintains smooth movement regardless of load.
- Wired and wireless tandem motor configurations.
- Integrated RF receiver for wireless control and integration.
- Dry contact closure (DCC) inputs for easy integration with third party automation control systems.
- Self adjusting, pressure sensitive limits ensure easy setup and accurate operation.
- Auto clutch feature allows the drapery system to be operated manually in the event power is lost.
- Auto engage feature allows the motor to automatically engage when the drapery is moved by hand.

#### Specifications:

- Power: 110–240VAC 50/60HZ (1Nm/1.8A) (2Nm/2.7A)
- Speed: 22ft/min @ 80 RPM.
- Rated torque: 1Nm & 2Nm.
- RF Frequency: 433 MHz.
- Limit type: Electronic.
- Clutch type: Electronic.
- Power connector: NEMA 5–15P
- Data/DCC connector: RJ25 (6P6C) 6 conductor.
- Controls: Radio frequency (RF) and dry contact closure (DCC).
- Thermal time: 4 minutes. (No load)

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1. **Pairing the transmitter (single motor configuration):**
  - a. Select the desired channel on the new transmitter you wish to pair.
  - b. Press the **PROGRAM** button on the bottom of the motor for 1 second.
  - c. The LED on the bottom of the motor will slowly flash red for 10 seconds acknowledging it has entered programming mode.
  - d. Within 10 seconds, momentarily press the **UP** button on the transmitter.
  - e. The LED on the bottom of the motor will rapidly flash blue 3 times acknowledging the pairing step is complete.
  
2. **Pairing the transmitter (tandem motor configuration):**
  - a. Connect first motor to power.
  - b. Perform step 1, a through e.
  - c. Verify first motor direction is correct. (if direction is incorrect, see step 3)
  - d. Disconnect first motor from power and connect second motor to power.
  - e. Perform step 1, b through e. (must be set to same channel as first motor)
  - f. Verify second motor direction is correct. (if direction is incorrect, see step 3)
  - g. Disconnect second motor from power and then reconnect both motors to power.
  - h. Test by cycling drapery system 3-4 times to set limits.
  
3. **Changing direction:** If the motor direction is reversed in relation to the controls on the remote, perform the following steps.
  - a. Press and hold the **STOP** button on the transmitter for 5 seconds.

**NOTE: If an intermediate position has been set, the motor will move to that position during this step. Continue to hold the STOP button down until the LED on the bottom of the motor begins to flash.**

- b. The LED on the bottom of the motor will slowly flash red for 10 seconds acknowledging it has entered programming mode.
  - c. Within 10 seconds, momentarily press the **STOP** button on the transmitter.
  - d. The LED on the bottom of the motor will rapidly flash blue 4 times acknowledging the direction was successfully changed.
  
4. **Setting the limits:** This drapery motor features an automatic, self learning, limit setting feature which requires no setup or adjustment. The limits are automatically set/adjusted every time the system is cycled.

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5. **Setting or readjusting an intermediate position:** A single intermediate position can be programmed into the drapery motor and can be set anywhere between the two end limits. The intermediate position can only be set after the motor has learned its own limits. (see step 4)
- a. Using the **UP**, **DOWN**, and **STOP** buttons on the transmitter, adjust the drapery to the desired intermediate position.
  - b. Simultaneously press the **UP** and **DOWN** button on the transmitter for 1 second.

**NOTE: If the motor moves during this step, the command was not received correctly. Readjust to the correct position and try again.**

- c. The LED on the bottom of the motor will rapidly flash blue 3 times acknowledging the position was successfully set.
6. **Hand pulling on/off:** This drapery motor has a hand pulling feature that allows the operator to engage the motor by gently pulling the drapery material 6”–8” in the desired direction. By default, this feature is enabled. To toggle this feature off, perform the following.
- a. Press and hold the **PROGRAM** button on the bottom of the motor for 7 seconds.
  - b. The LED on the bottom of the motor will slowly flash red 3 times acknowledging it has entered programming mode.
  - c. The LED on the bottom of the motor will rapidly flash red for 4 seconds.
  - d. The LED on the bottom of the motor will rapidly flash blue 3 times acknowledging the hand pulling feature has been changed.
7. **Deleting a transmitter (or channel):**
- a. Press and hold the **STOP** button on the transmitter you wish delete for 5 seconds.
  - b. The LED on the bottom of the motor will slowly flash red for 10 seconds acknowledging it has entered programming mode.
  - c. Within 10 seconds, momentarily press the **DOWN** button on the transmitter you wish delete.
  - d. The LED on the bottom of the motor will rapidly flash blue 4 times acknowledging the transmitter has been deleted.

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**8. Motor reset: (Method A)**

- a. Press and hold the **STOP** button on the transmitter for 5 seconds.
- b. The LED on the bottom of the motor will slowly flash red for 10 seconds acknowledging it has entered programming mode.
- c. Within 10 seconds, press and hold the **PROGRAM** button on the transmitter (located on the backside of the handheld remote OR under the faceplate on the RF keypad) for 7 seconds.
- d. The LED on the bottom of the motor will illuminate solid blue acknowledging its internal memory has been reset.

**9. Motor reset: (Method B)**

- a. Press and hold the **STOP** button on the transmitter for 5 seconds.
- b. The LED on the bottom of the motor will slowly flash red for 10 seconds acknowledging it has entered programming mode.
- c. Within 10 seconds, press and hold the **PROGRAM** button on the bottom of the motor for 3 seconds.
- d. The LED on the bottom of the motor will rapidly flash red.
- e. Momentarily press the **PROGRAM** button on the bottom of the motor.
- f. The LED on the bottom of the motor will illuminate solid blue acknowledging its internal memory has been reset.

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#### Notes:

- i. Do not operate other transmitters or shades while performing the pairing or programming process on any motor.
- ii. Up to 20 transmitters and can be paired to single motor.
- iii. When pairing an AC117 (RS-232 to RF integration device) to the drapery motor, the HEX string "FF 10 11 **XX** DD" should be used to send a "UP" command to the motor. (replace **XX** with corresponding channel number you are programming to. **Never use channel 00**)
- iv. You cannot delete the AC117 (RS-232 to RF integration device) from an individual channel. Instead you must reset the motor (see step 8 or 9) and reprogram the motor starting from step 1.
- v. You cannot recall an intermediate position when using the AC117 as it is not possible to send a **STOP** command for the required 2 second duration.
- vi. Disconnecting the motor from its power source will cause all learned limits to be lost.
- vii. Motor will completely exit out of any programming mode after 10 seconds of inactivity.
- viii. If the motor is automatically closing the drapery just after opening, the drapery material itself may be "too full" and engaging the hand pulling feature. To remedy this, try disabling the hand pulling feature. (see step 6)
- ix. RF range is approximately 150' (line of sight) and will vary significantly depending on several factors including (but not limited to): location of device, adjacent structures, other nearby RF devices, and electrical wiring.
- x. NEVER support, handle, pull, or hang the motor by its power cord. Doing so will result in PERMANENT damage to the motors internal components and voids the product warranty.