

## Model 01T0DM - Dual Momentary Output

**Overview of Components :** The FreeFlo wireless remote receiver unit is designed to provide highly dependable, functional, virtually maintenance-free service over the lifespan of the unit. The FreeFlo Wireless control system is crafted using high quality components, with long term service life and superior performance being the ultimate goal. It is our commitment to provide products that not only meet needs and expectations, but exceed them. Thank you for choosing our product.



**Battery Replacement :** During standard operation of the wireless unit, when you depress a button on the key fob transmitter (any button assigned a function) the LED indicator on the key fob will illuminate. Should the LED not illuminate, this is an indicator that battery voltage has dropped below 2.0 volts, and it is time to replace the battery. It is suggested that you change the battery (coin cell battery #CR2032) in the key fob transmitter at least once annually, prior to each operational season. The key fob battery can be changed by simply removing the small screw on the back of the unit and splitting the transmitter case. Once the case is open, slide the battery out of the battery holder and replace. It is important to be delicate during battery replacement so no damage to the unit occurs; especially with regard to the solder points where the metal battery holder connects to the transmitter board. Electrostatic discharge and/or contacting internal electronic circuitry with metal tools can cause damage to components as well. For this reason, no screwdrivers or other hand tools should be used inside of the transmitter case. Upon reassembly, make certain that the gray keypad is seated securely in the sealing channel. If this is not done properly with care, the unit may be susceptible to water damage. To seat the pad properly, once the battery is changed, position the keypad over the transmitter board, and ensure proper alignment. Place the top half of the transmitter casing (the side with four button holes) down over the entire assembly. **VERY IMPORTANT: DO NOT PLACE THE RUBBER KEYPAD IN THE TOP HALF OF THE CASING BEFORE REJOINING THE TWO HALVES. PLACE THE RUBBER KEYPAD OVER THE BOARD, THEN PLACE THE TOP HALF DOWN OVER THE ENTIRE ASSEMBLY.** Following the above procedure will result in a proper seal and ensure quality protection against environmental forces.

**About Frequency "Learning" :** When purchased, the communication between the key fob transmitter and the receiver will already be established. Once powered up, the unit should function properly with no further action required. (View the table below for the operational characteristics of your configuration.) Occasionally during your period of ownership, there may be times when it is necessary to reestablish the communication, or wireless communication between the key fob transmitter and the receiver unit. This is accomplished by "learning" the transmitter into the receiver unit. It may be necessary to perform this action after extended periods of storage, inactivity, key fob replacement, or the addition of extra key fob controls. It can also be used as a troubleshooting measure whenever communication between the transmitter and receiver unit has been lost.

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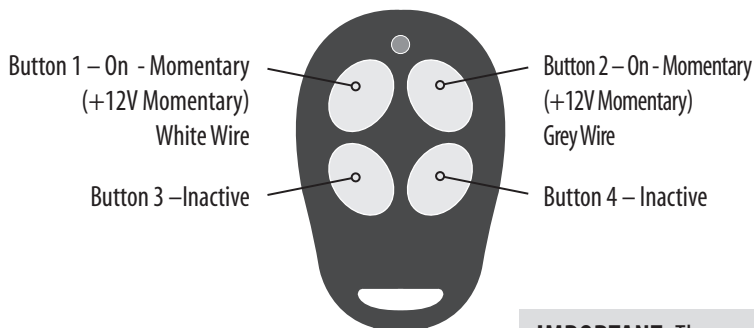
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**About Frequency "Learning":** (Do this only after the initial troubleshooting measure of transmitter battery replacement has been completed.) Each transmitter generates a unique signal, and your receiver unit needs to be able to identify and respond to that signal in order to operate. The use of a unique signal for each transmitter prevents your receiver from being susceptible to outside interference, and protects against stray signals causing potentially undesirable operation. Some customers prefer to have multiple key fob controls for their units. Each FreeFlo Wireless Remote is capable of handling and responding to multiple (up to five) key fob transmitters; you simply have to "learn" each individual transmitter to your receiver unit. Additional key fob controls are available through Lundell Plastics (877) 367-7659.

**"Learning" Instructions:** To complete the "learn" procedure, simply do the following. Power up the unit. When you do so, the LED on the receiver unit will flash RED four times. This indicates that the unit has received power. There is a magnetically controlled switching circuitry embedded in the receiver unit. Place a fairly powerful magnet over the receiver "learn" area (see diagram on page 1 for location) for a brief moment (3 seconds), and then remove it. (Learn magnets are available through Lundell Plastics.) The LED will go to a constant RED state. Now immediately press any button on the transmitter you are attempting to "learn". The LED will go to a GREEN/YELLOW color. This confirms that the receiver has picked up a signal from the transmitter, and subsequently "learned" that signal. Communication has been established, and it is now ready to function properly.

**Troubleshooting:** Should the above procedure not complete successfully, wait until the LED light goes out, and repeat the procedure. If for any reason you experience a second failure of the "learn" procedure, do the following: place the magnet on the "learn" area and the LED will go to a constant RED state, leave the magnet in place on the receiver until the LED light goes out (approximately 10 seconds). This action completely clears the receiver's memory. It's akin to reformatting, or freeing up all of the space on a computer hard drive. Once you have cleared the memory, proceed with the standard "learn" procedure detailed above for each of the key fob transmitters you wish to use with the device. If, after all of the procedures detailed above are completed, the unit is still not functioning, check the battery in the transmitter once again. (Occasionally, even new batteries fail, or are defective from the factory. If you have a voltage meter, confirm that battery voltage is at least 2.7 volts.) If that still does not solve the problem, contact our wireless control customer service at (877) 367-7659 for assistance.

**Operational Parameters:** During standard operation, to confirm the receiver is picking up a signal from the transmitter, the receiver will respond to keypad inputs by illumination of the receiver LED (see diagram on page 1) This system has a dual momentary configuration; the two outputs (White and Gray wires) are controlled through operation of the remote. The control button configuration on your FreeFlo wireless system (01T0DM) is as follows:



The wiring harness has three wires coming out of the RF receiver unit. The plug pin-out and wire colors are as follows:  
 Pin 1 – Yellow - Power Lead (+12V in)  
 Pin 5 – White - Output (+12V momentary - while button 1 is depressed)  
 Pin 7 – Black - Ground Lead (connect to ground)  
 Pin 8 – Grey - Output (+12V momentary - while button 1 is depressed)

**IMPORTANT:** The receiver is intended for 12 volt input and 7 amp max output. Exceeding these limits will void any product guarantee and cause damage to the receiver.