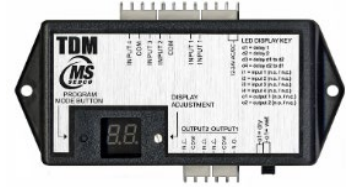


TDM TIME DELAY MODULE

DESCRIPTION

The TDM is a multipurpose time delay module typically used for automatic pedestrian door applications. The TDM-HC has the same capability but uses a high current relay that can handle higher inrush current draw as required by older style electrified exit devices.



TDM

INCLUDED IN THE BOX

(1) TDM Programmable Module
(2) Wire Harnesses: 12" Length
(2) Phillips Head Mounting Screws
(1) Self-Adhesive Velcro Mounting Strip
(1) Installation Instructions

SPECIFICATIONS

Model	TDM
Input Power	12-24V AC/DC
Power Consumption	2W Maximum
Relay 1 Contacts	Form C, 5A@120V AC/60V DC
Relay 2 Contacts	Form C, 5A@ 120V AC/60V DC
Temperature Rating	-22°F to 158°F (-30°C to 70°C)
Weight	<0.25 lbs.
Module Size	4.75"L x 2.125"W x 0.75"H

MECHANICAL INSTALLATION

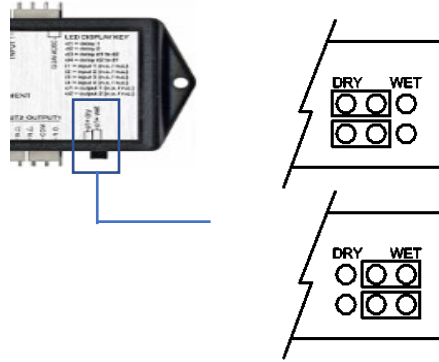
- The TDM installation is intended for interior mounting locations.
- The module can be mounted with the screws or Velcro provided.
- Do not connect the input power until all wiring is completed.

INPUTS & OUTPUTS

	I/O	WIRE COLOR	FUNCTION
12 POSITION - INPUTS	12-24V AC/DC	GREEN	Input power to the TDM. Must be 12 to 24 volts AC or DC. Not polarity sensitive
	12-24V AC/DC	GREEN	
	INPUT 1	BLUE	Input 1 serves applications that require timed sequencing between an automatic door operator and electric lock. Input 1 also serves as the activation of one door in a sequencing application - (used in combination with Input 2)
	INPUT 1	WH/BLUE	
	COM	WH/RED	Common input used with input 2, 3, or 4
	INPUT 2	WH/GREEN	Input 2 sequences Output 2 then Output 1. It is used for vestibule sequencing applications when used in combination with Input 1.
	INPUT 3	WH/VIOLET	Input 3 is used to trigger Output #1 only
	COM	WH/GRAY	Common input used with input 3 and/or 4
	INPUT 4	WH/BROWN	Input 4 is used to trigger output #2 only
6 POSITION - OUTPUTS	WHITE	N.O.	OUTPUT #1 FORM C RELAY – 5A CONTACT RATING
	GRAY	COM.	
	VIOLET	N.C.	
	YELLOW	N.O.	OUTPUT #2 FORM C RELAY – 5A CONTACT RATING
	BROWN	COM.	
	ORANGE	N.C.	

WET/DRY OUTPUT SELECTOR

DRY	Contacts at both outputs are dry (no voltage present)
WET	<ul style="list-style-type: none"> Output 1 has “wet” contacts with the voltage being the same as that which is being supplied at the power input wires of the TDM. Ensure the total load does not exceed the amp capacity of the power source. Output 2 will remain “DRY” with this setting.



PROGRAMMING FUNCTIONS

DISPLAY	FUNCTION	
--	Ready mode - Flashing	Double dash indicates TDM is ready for use according to its user-defined program.
d 1	“ON TIME” of Output 1. 0.0 to 99 seconds	d1 is the “on time” or time that Output 1 remains active. Default is 3.0.
d 2	“ON TIME” of Output 2. 0.0 to 99 seconds	d2 is the “on time” or time that Output 2 remains active. Default is 3.0.
d 3	Time delay between Output 1 and Output 2 0.0 to 99 seconds	d3 is the amount of time that must pass to trigger Output 2 after Output 1 has expired. Default is 3.0.
d 4	Time delay between Output 2 and Output 1 0.0 to 99 seconds	d4 is the amount of time that must pass to trigger Output 1 after Output 2 has expired. Default is 3.0.
i 1	Input 1	Each input has the option of N.O. or N.C. By default, all are set to N.O.
i 2	Input 2	
i 3	Input 3	
i 4	Input 4	
o 1	Output 1	Each output has the option of N.O. or N.C. By default, both are set to N.O.
o 2	Output 2	
34	Override	<p>The Override feature can be turned on or off. Default is on.</p> <p>When Override is turned on:</p> <ul style="list-style-type: none"> If any input is activated during the output sequence of a previous input, the second input will override the first. <p>When Override is turned off (of):</p> <ul style="list-style-type: none"> Input 1 and 2 are always in override mode. Any current output sequence will be overridden by Input 1 or 2. Input 3 and 4 will not override any output sequence. If Input 3 is activated then Input 4 is activated, both outputs will activate and be displayed as 12. <p>If an Input 1 or 2 output sequence is active, Input 3 or 4 will not cause an override.</p>
• •	Error - Flashing	Double dots – indicates an input may be stuck in the activated position or an input is possibly wired incorrectly.

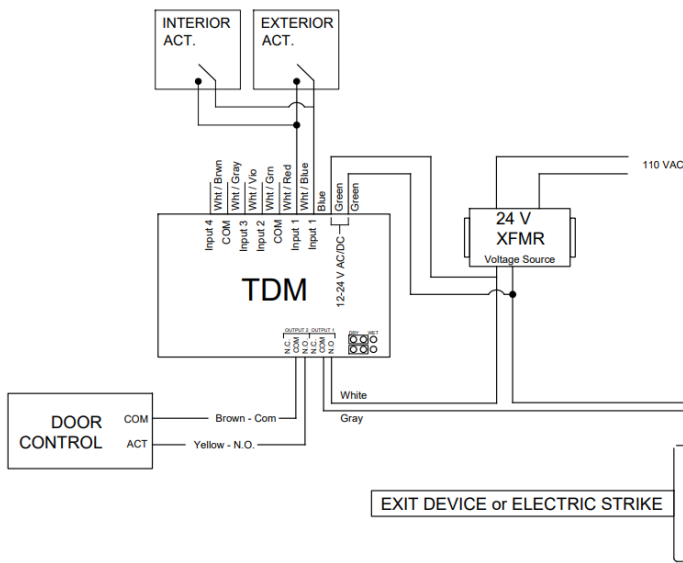
PROGRAMMING

To program the TDM, perform the following:

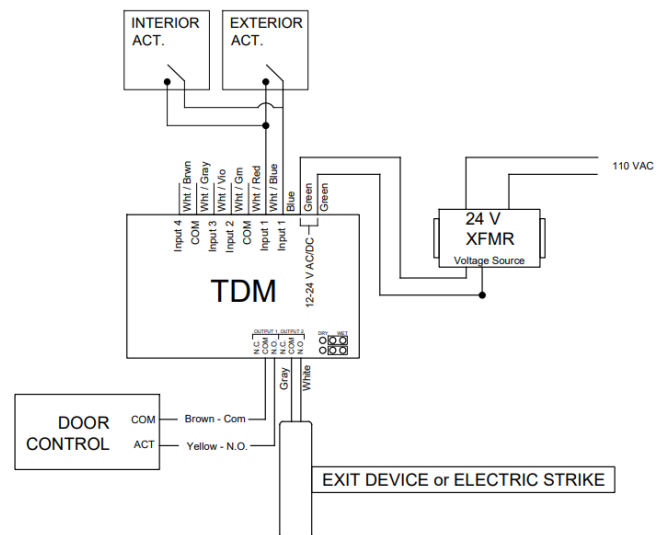
- Apply the required input power to the TDM.
- The display will show “ - - ”.
- Momentarily press the “PROGRAM MODE BUTTON”.
- The first timer on the display will be “d1”.
- Rotating the “DISPLAY ADJUSTMENT” will change the value of the timer.
- Once a timer has been set, a press of the “PROGRAM MODE BUTTON” will save the value and will advance the display to the next timer “d2” ... and so on.
- Advance through each timer, input, and output mode in this same manner and adjust per the application.
- Upon completion of the last adjustment, press the “PROGRAM MODE BUTTON” to save the last setting.
- Wait 30 seconds – the display will revert to “ - - ” to indicate the TDM is in its normal operating mode and ready for use.



AUTOMATIC DOOR & ELECTRIC STRIKE – DRY OUTPUT 1



AUTOMATIC DOOR & ELECTRIC STRIKE – WET OUTPUT 1

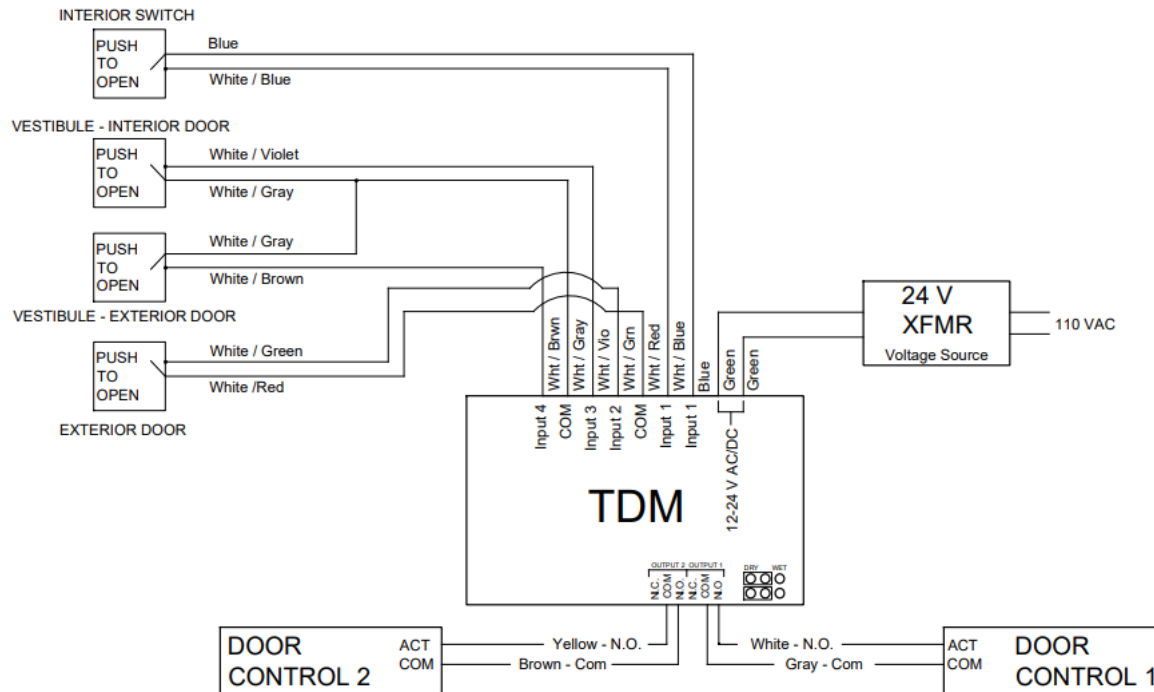


Typical Starting Values For Lock Interfacing:

- D1: Output 1 hold time (lock) – 2 seconds
- D2: Output 2 hold time (door) – 2 seconds
- D3: Delay between Output 1 and 2 is typically .2 to .5 seconds.

Output 1:
Electric strikes typically N.O.
Electrified exit Devices typically N.O.
Maglocks typically N.C.

VESTIBULE SEQUENCING APPLICATION



- Door hold-open times should be set at the door controllers.
- Ensure compliance with applicable ANSI Standards upon completion of installation.

QUALIFIED INSTALLERS

When this product is used for automatic pedestrian door applications, MS Sedco recommends it only be installed by technicians who are certified inspectors by the American Association of Automatic Door Manufacturers (AAADM). All installations shall be compliant to applicable nationally recognized codes and performance standards.

RMA PROCEDURE



Upon confirmation of a failed product, an RMA form must be filled out online prior to returning the product to MS Sedco.

Go To: <https://mssedco.com/return-repair-policy-form/>

Or scan the QR code with your smartphone to go directly to the online form.

TERMS OF WARRANTY

MS SEDCO, Inc. guarantees this product to be free from manufacturing defects for three years from the date of invoice. Terms apply.

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