EMX INDUSTRIES, INC.

PTM™

7 Day Programmable Timer

Instruction Manual

The PTM seven day timer allows for the programming of open and close times for overhead doors, gates and parking barriers. It is designed with 16 ON/OFF events per day and 15 combinations of daily programs for the best flexibility to the user. This DIN rail mounted timer has an internal battery for memory back-up in the event of a power failure.

Cautions and Warnings

Install the PTM according to instructions from the gate or door operator manufacturer. Comply with all applicable codes and safety regulations.

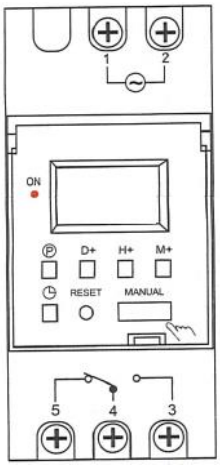
Specifications

Power & Current Draw	12 VDC/AC – 46 mA activated
	24 VDC/AC – 37 mA activated
	120 VAC – 33 mA activated
Events	16 ON/OFF per day
Daily Program Options	15 combinations
Relay Contact Rating	SPDT 16 A @ 24 VDC / 120 VAC
Operating Temperature	14º F to 122ºF (-10°C to 50°C)
Mounting	DIN rail
Dimensions (L x W x H)	3.41” (86.5 mm) x 1.42” (36 mm) x 2.70” (68.5 mm)

Ordering Information

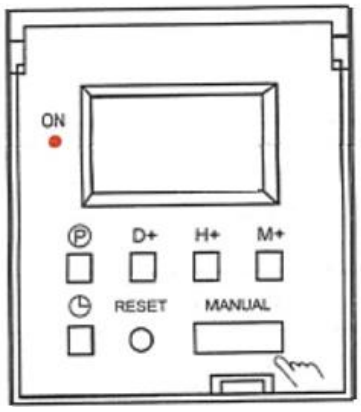
- PTM-12 12 VDC/AC programmable timer
- PTM-24 24 VDC/AC programmable timer
- PTM-120 120 VAC programmable timer

Wiring Connections



Terminal	Description
1	Power -
2	Power +
3	Relay – NO
4	Relay – COM
5	Relay – NC

User Interface



Button	Function
Ⓟ	Program Adjust
D+	Day Adjust
H+	Hour Adjust
M+	Minute Adjust
◷	Clock Adjust
RESET*	Reset Timer
MANUAL	Relay Set

Installation

1. Attach the PTM to the DIN rail. Lift the clear access cover. Press RESET to turn on the display.

2. Power setup:

- Connect power to terminals 1 & 2. Connect terminal 3 (relay NO) and terminal 4 (relay COM) to the correct terminals in the operator as specified by the manufacturer.

TIP:

- Battery life will be reduced if unit is powered off repeatedly each night.
- The unit must be on and powered to operate. The PTM cannot run off the memory back-up battery.
- Install the PTM away from inductive loads. Inductive loads must have MOV or RC suppressors. If possible, use a separate power source for the timer.

3. Current time and date setup:

Step	Operation	State
1	Press and hold CLOCK and H+	Sets the current hour
2	Press and hold CLOCK and M+	Sets the current minute
3	Press and hold CLOCK and D+	Sets the current day

TIP:

- Hold H+ or M+ for two seconds to fast scroll numbers.
- Press and hold CLOCK for over 3 seconds to shift from 24 hour to 12 hour format.

4. Program setup: *Press RESET before programming

Step	Operation	State
1	Press P	Enter program mode
2	Press and hold H+ and then press and hold M+	Set 1st event ON time
3	Press and hold D+	Set which daily program to use as 1st event ON time (15 options)
4	Press P	Shows 1st event OFF time
5	Press and hold H+ and then press and hold M+	Set 1st event OFF time
6	Press and hold D+	Set the daily program to use as 1st event OFF time (15 options)
7	Repeat steps 2-6	If needed, set 2-16 ON/OFF events
8	Press CLOCK	Exit program mode

15 Daily Program Options							
1	**MO**	**TU**	**WE**	**TH**	**FR**	**SA**	**SU**
2	**MO**	**TU**	**WE**	**TH**	**FR**	**SA**	
3	**MO**	**TU**	**WE**	**TH**	**FR**		
4						**SA**	**SU**
5	**MO**	**TU**	**WE**				
6				**TH**	**FR**	**SA**	
7	**MO**		**WE**		**FR**		
8		**TU**		**TH**		**SA**	
9	**MO**						
10		**TU**					
11			**WE**				
12				**TH**			
13					**FR**		
14						**SA**	
15							**SU**

5. Set Desired Current Relay State Manually: (After program setup is complete)

- If the relay should be ON at the current moment, press the MANUAL button to display ON (the relay is now ON) then press MANUAL again to display AUTO. The state of the timer relay will be evaluated again at the next event time setup in your program.
- If the relay should be OFF at the current moment, press the MANUAL button to display OFF (the relay is now OFF) press MANUAUL again to display AUTO. The state of the timer relay will be evaluated again at the next event time setup in your program.

Warranty

EMX Industries, Inc. products have a warranty against defects in materials and workmanship for a period of two years from date of sale to our customer.