

# Operating Instructions

## TimeMaster

# GMX Series Time Controls

### APPLICATION

The GMX Series are universal electromechanical time switches within NEMA 1 indoor enclosures or NEMA 3R outdoor enclosures intended for the control of lighting, heating, air conditioning, pumps, motors, or general electrical circuits in residential, commercial, industrial and agricultural facilities. Basic models are:

GMX ST	SPDT 24 hour synchronous drive
GMX SW	SPDT 7 day synchronous drive
GMX QRT	SPDT 24 hour quartz drive
GMX QRW	SPDT 7 day quartz drive

### SPECIFICATIONS

**Switch Rating:** SPDT Switch

- 21A Resistive @ 125/250 VAC
- 1 HP @ 125 VAC
- 2 HP @ 240 VAC
- 16 FLA, 96 LRA, 120 VAC
- 12 FLA, 72 LRA, 240 VAC
- 1350W Tungsten @ 240 VAC
- 675W Tungsten @ 120 VAC

### ENVIRONMENTAL RATINGS

Ambient Temperature: -40°F to 180°F synchronous drive  
-20°F to 140°F quartz drive  
Humidity: 0-95% RH, Non-condensin

### WIRING CONNECTIONS

Screw clamp terminals for up to AWG #10 wires.

### INSTALLATION

1. Select knockouts to be used. Remove the inner (1/2") knockout by inserting a screwdriver in the slot and carefully punch knockout loose. Remove slug. If the 3/4" knockout is required, remove the outer ring with pliers after removing the 1/2" knockout. Smooth edges with a knife if necessary.
2. Place enclosure in desired mounting location and mark the three mounting holes.
3. Drill holes for #10 screws, start screws in holes.
4. Place enclosure over screws and tighten screws.
5. Connect conduit hubs to conduit before connecting the hubs to the enclosure. After inserting hubs into enclosure, carefully tighten hub lock nut. Do not over-torque.
6. Wire in accordance with National and Local Codes.

**GROUNDING:** This enclosure is of plastic construction and does not require a ground connection and does not require bonding in pool applications.

*This enclosure does not provide grounding between conduits. When using non-metallic conduit or cable, connect the ground wires of all cables together with a wire nut. When metallic conduit is used, use grounding type bushings and a jumper wire between each conduit.*



GMX ST-I-120

## Programming Instructions

**SETTING THE TIME: TO SET THE CURRENT TIME (AND DAY OF WEEK ON 7 DAY UNITS), TURN THE MINUTE HAND CLOCKWISE. DO NOT SET THE TIME BY ROTATING "OUTER" DIAL.**

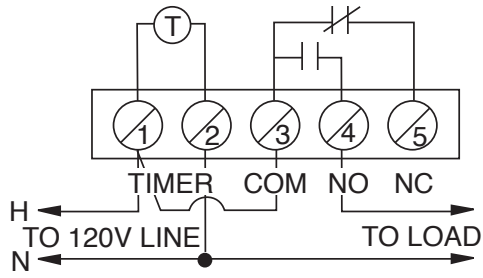
**PROGRAMMING:** The 24 hour model has trippers of 15 minute increments, and a AM/PM indication on the outer dial. The 7 day model has trippers of 2 hour increments, and the outer dial shows the 7 days of the week and AM/PM for each day. Push the captive trippers outward for the time period(s) that the load is to be on (Normally open contacts closed).

**Manual Override:** With the manual switch in the middle position, the time switch is in automatic mode and will switch at the programmed times. In the upper position "1", the load is permanently ON. In the lower position, "O", the load is permanently OFF.

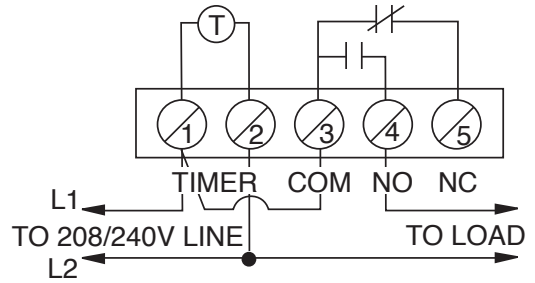
**BATTERY POWERED RESERVE (Quartz Models):** In case of power failure, the built-in nickel-cadmium battery maintains the time of day for a minimum of 7 days.

# Typical Wiring Diagrams

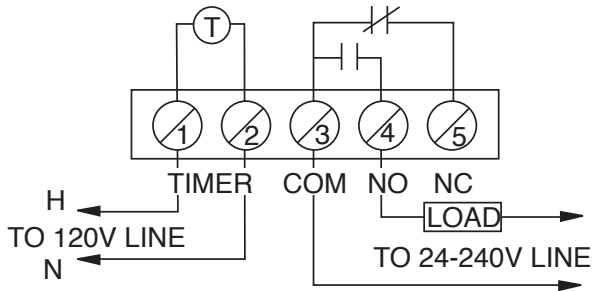
120V Timer, 120V Load



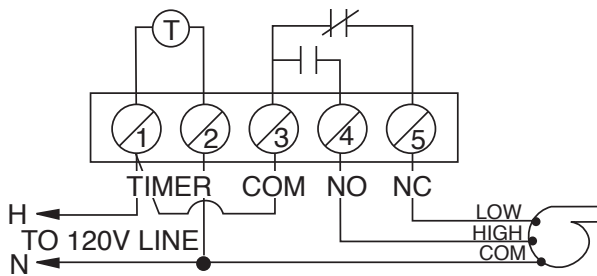
208/240V Timer, 208/240V Load



120V Timer, 24V, 120V, or 240V Load



120V Two Speed Fan



## Enclosure Dimensions

