

Model 24200 Timer

Features

- Solid state timing accuracy
- Accumulates time if additional pulses are given during the preset run time
- 24 VAC or 120 VAC line voltage, established by a simple switch adjustment
- 1 second increment time settings over a range of 1 second to 18 hours
- Can withstand power surges normal in electrical storms and other common conditions
- Simple switch adjustments make it easy to set and change run time
- When used with electronic coin acceptors, the timer will function with either AC or DC pulse acceptors
- Suitable for both 50 Hz and 60 Hz applications
- Accurate within 0.01 seconds
- Easy to customize settings



Applications

- Self-service car wash systems
- Test applications
- Vacuum cleaners
- Coin-operated equipment
- Outdoor timed lighting
- Fragrance machines
- Tire inflators

Specifications

- Circuit boards moisture resistant per Federal Specification TT-L-50G Type II
- ETL recognized



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Installation Instructions

General Information

Model T24200 is equipped with a switch to allow operation at either 24 volt AC or 120 volt AC. The timer is shipped with the switch in the neutral or "OFF" position. After the timer is installed, select the switch position for the voltage at which your system is operating. Normally, bay operation is 24 volt AC while vacuum and fragrance dispensers typically operate on 120 volt AC. For 120 volt AC application, it is recommended that a minimum 20 amp fuse be installed between the position **4** Load Hot and the load (e.g., the vacuum motor).

Positions **1** through **4** are self-explanatory. If a mechanical micro-switch coin acceptor is used, connect the microswitch wires to positions **5** and **6**. The wires at the micro-switch should be connected to the "NO" (normally open) and "C" (common) lugs on the switch.

Typical Hookup Interface

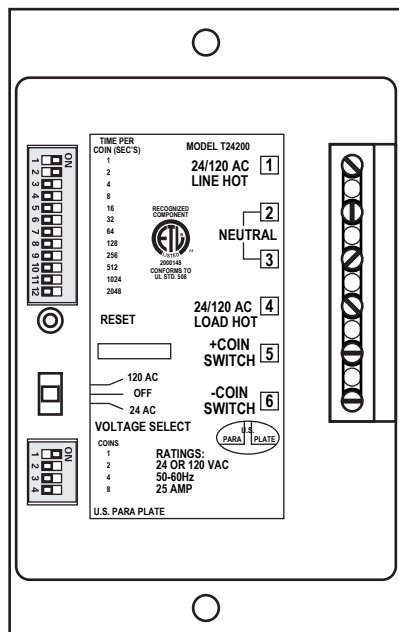
The following instructions cover the most common electronic coin acceptors from GinSan and Parker Engineering and Manufacturing. You can contact these or other coin acceptor manufacturers directly for their recommendations.

Sensortron® with DC pulse by GinSan

- Yellow to **1**
- Black to **2, 3, or 6**
- Blue to **5**

Universal Sensortron® GS-41 by GinSan

- Yellow to **1**
- One each red/green and black to **2, 3, or 6**
- One each red/green to **5**



- **Slugbuster® by Parker Engineering**
- Yellow to **1**
- Black to **2, 3, or 6**
- Blue to **5**

(For the Slugbuster® model with the optional equipment feature, connect the Purple wire to the **2, 3, or 6**, or to the optional equipment as recommended by the manufacturer.)

Setting the Number of Coins to Start

Selecting the number of coins (or tokens) needed to start the timing cycle is done with the 4 switches on the lower left of the face plate. The switches are numbered and correspond to number of coins shown on the label next to them. If 4 coins are required, set the **3** switch (corresponding to 4 coins) to "ON". If 6 coins are required, set the **2** and the **3** switches (corresponding to 2 and 4 coins respectively) to the "ON" position. Select

other combinations in a similar manner as needed. After changing switches, press "RESET" for the changes to take effect.

Setting the Run Cycle Time

The run cycle time is set using the switches on the upper left area of the faceplate. The number of seconds of time for each switch is on the label next to the switches. The desired time per coin is set by moving the switches to the "ON" position such that they add to the total time in seconds. For example, to set one minute, twenty seconds (80 seconds) per coin, move the **5** switch (16 seconds) and the **7** switch (64 seconds) to the "ON" position. Press "RESET" to enable the new settings.

Important note: Make certain that at least one each of the "Coins" switches and the "Time Per Coin" switches are "ON". Otherwise, the timer will run continuously. If this occurs, set switches to "ON" and push the "RESET" switch.

Caution should be exercised to insure that polarity is correct for the "Line Hot" and the "Line Neutral". Always disconnect the power supply before attempting to service any electrical system.

Returns

Any defective timer can be returned if replacement or repair is necessary. Please return the timer prepaid with a complete explanation of the malfunction. An evaluation is not possible if the timer is disassembled or otherwise abused.

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