

# ChronTrol®

## SPECIFICATIONS and INSTALLATION

### WALL MOUNT-DRY CONTACT 2, 4, & 6 CIRCUIT MODELS

## SPECIFICATIONS

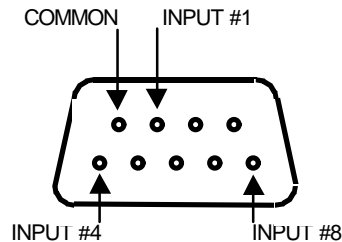
<b>Dimensions:</b>	8" x 10" x 4" (H/W/D) / 203mm x 254mm x 100mm
<b>Face:</b>	14 Gauge zinc-plated steel (non-weatherproof)
<b>Shipping Weight:</b>	9 lb./ 4 kg.
<b>Environmental Range:</b>	0° F to 130° F/-17° C to 54° C; 0 to 90% relative humidity (non-condensing)
<b>Power Source:</b>	120 Volts AC $\pm$ 5% <b>Optional:</b> 240 volts AC $\pm$ 5%
<b>Time Base:</b>	50/60 Hz Line Frequency (automatically selected) with Crystal backup system
<b>Power Consumption:</b>	4 watts not including switching circuits
<b>Number of Circuits:</b>	2, 4, or 6 independent circuits
<b>Relays:</b>	20 Amp Single-Pole Double-Throw (SPDT) with 1/4" "Quick connect" contacts
<b>Number of Inputs:</b>	8 digital inputs, 9-position D-subminiature (DE-9) connector
<b>Display:</b>	.56" Continuous LED display of Time of Day or program information
<b>Keyboard:</b>	24-key, dome switch, audible
<b>Battery Backup:</b>	9-volt alkaline system provides 14-day protection of memory and Time of Day
<b>Power Switching:</b>	0 to 277 Volts 20 Amperes per circuit at 240 VAC 6 Amperes per circuit at 277 VAC
<b>Circuit Status Indicators:</b>	LED circuit "ON" indicator (one per circuit)
<b>Serial Communication:</b>	Asynchronous, 2400 baud, 8 data bits, 1 stop bit, no parity
<b>Signal Level:</b>	EIA RS-232C
<b>Connection:</b>	6-position, 4-conductor modular jack (RJ-12 type)
<b>Input Drive Requirement:</b>	Switch closure between input pin and common pin
<b>Max. switch resistance:</b>	1000 ohms
<b>Minimum closure time:</b>	50mS (1/20 second)
<b>Maximum closure time:</b>	Indefinite
<b>Maximum input latency:</b>	1 second
<b>Maximum switch current:</b>	500 $\mu$ A

# INSTALLATION

ChronTrol is a precision electronic timer designed for installation indoors in a place protected from excess moisture and temperature conditions. It is made to National Electrical Code requirements and is designed for a standard three-wire system.

**CAUTION:** The ChronTrol Wall Mount timer should be wired and installed by a qualified electrician.

1. After removing the timer from its shipping container, examine it carefully to be sure that it has not been damaged during shipment. Remove all shipping material.
2. Carefully remove the ChronTrol chassis from its 8" x 10" x 4" gray enclosure.
3. Securely mount the gray enclosure in place.
4. Unwind the two power supply wires. **Turn the main power switch of the home or business OFF.** Connect the ground wire from ChronTrol's chassis to a solid earth ground. Now connect the AC power supply wires. Turn the main power switch ON. The timer is now "ON".
5. Now activate ChronTrol's memory protection system by installing the battery in the battery compartment located on ChronTrol's front panel. Use a single 9-volt alkaline battery. For best results, use reliable, fully charged batteries.
6. Now **turn the main power switch of the home or business OFF** and connect the equipment to be controlled to the relays.
7. If timer is equipped with a connector for inputs, attach a ChronTrol I-Box or other suitable accessory. Pin assignments are:

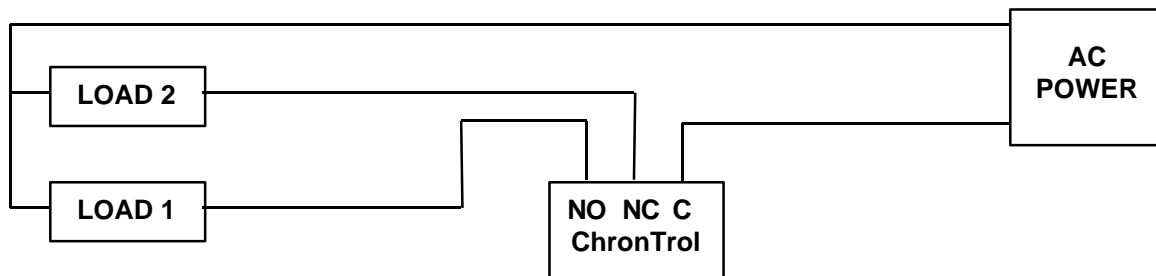


8. After all equipment has been connected and the chassis mounted in its gray enclosure, turn the main power switch ON. The timer is now ready to be programmed. See the *XT User's Guide* for programming instructions.

## WALL MOUNT DRY CONTACT WIRING

The single pole-double throw relay is standard on the "wall mount" model and can be used to operate two devices, the one being "ON" when the other is "OFF". One wire of the equipment is connected to the normally open (NO) contact on ChronTrol's relay. Another wire connects the power source to the common (C) contact on ChronTrol's relay. The third wire is connected directly from the equipment to the power source. Wire the optional second appliance between the power source and the normally closed (NC) relay contact as shown below.

**Single Pole - Double Throw (SPDT) Circuit**



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