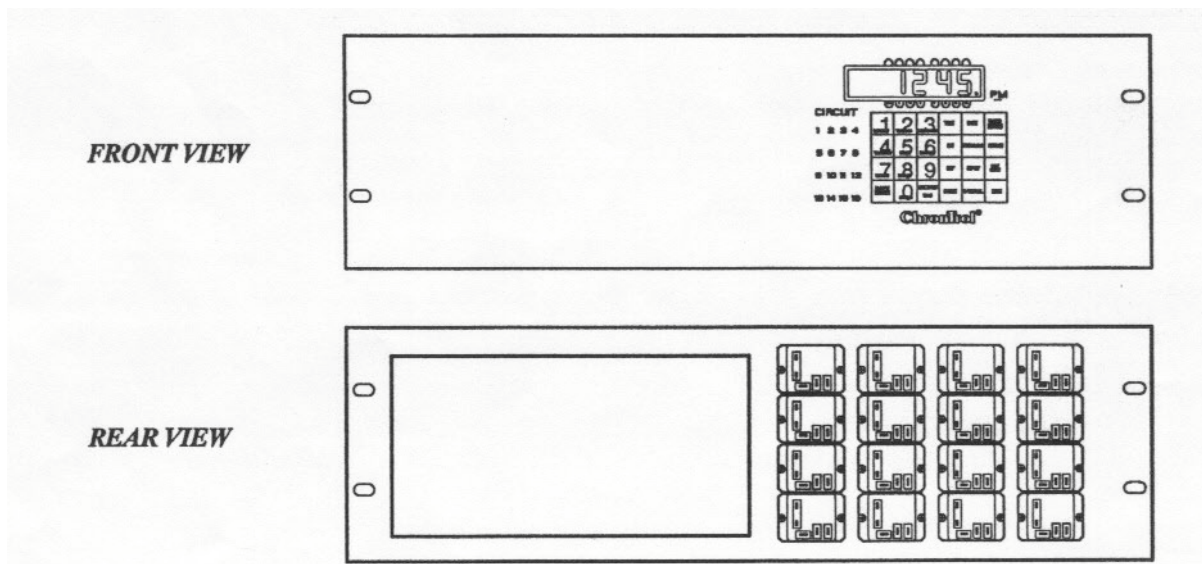


ChronTrol®

SPECIFICATIONS and INSTALLATION

RACK MOUNT - DRY CONTACT 2, 4, 8, 12, & 16 CIRCUIT MODELS



SPECIFICATIONS

Dimensions:	5.25" x 19" x 4" (H/W/D) / 133mm x 483mm x 100mm
Shipping Weight:	7 lb. / 3 kg.
Environmental Range:	0° F to 130° F/-17° C to 54° C; 0 to 90% relative humidity (non-condensing)
Power Source:	120 Volts AC \pm 5% Optional: 240 volts AC \pm 5%
Time Base:	50/60 Hz Line Frequency (automatically selected) with Crystal backup system
Power Consumption:	4 watts not including switching circuits
Number of Circuits:	2, 4, 8, 12, or 16 independent circuits
Relays:	20 Amp Single-Pole Double-Throw (SPDT) with 1/4" "Quick connect" contacts
Number of Inputs:	8 digital inputs, 9-position D-subminiature (DE-9) connector
Display:	.56" Continuous LED display of Time of Day or program information
Keyboard:	24-key, dome switch, audible
Battery Backup:	9-volt alkaline system provides 14-day protection of memory and Time of Day
Power Switching:	0 to 277 Volts 20 Amperes per circuit at 240 VAC 6 Amperes per circuit at 277 VAC
Circuit Status Indicators:	LED circuit "ON" indicator (one per circuit)
Serial Communication:	Asynchronous, 2400 baud, 8 data bits, 1 stop bit, no parity
Signal Level:	EIA RS-232C
Connection:	6-position, 4-conductor modular jack (RJ-12 type)
Input Drive Requirement:	Switch closure between input pin and common pin
Max. switch resistance:	1000 ohms
Minimum closure time:	50mS (1/20 second)
Maximum closure time:	Indefinite
Maximum input latency:	1 second
Maximum switch current:	500 μ A

INSTALLATION

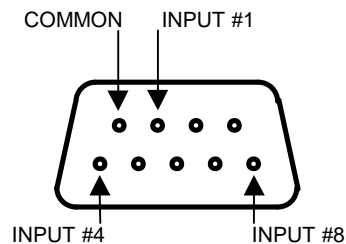
ChronTrol is a precision electronic timer designed for installation indoors in a place protected from excess moisture and temperature conditions. It is made to National Electrical Code requirements and is designed for a standard three-wire system.

CAUTION: The ChronTrol Rack Mount timer is an electrically powered device and subject to common electrical hazards. Caution must be exercised during the installation procedure.

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. Plug in the AC power cord. The timer is now "ON".
3. Now activate ChronTrol's memory protection system by attaching the battery to the snap located on ChronTrol's rear panel. Use a single 9-volt alkaline battery. For best results, use reliable, fully-charged batteries.

NOTE: If your ChronTrol was pre-programmed at the factory, a battery is already attached. Do not disconnect the battery for this installation procedure.

4. Connect the equipment to be controlled to the relays, and securely mount the timer's chassis in place.
7. If timer is equipped with a rear connector for inputs, attach a ChronTrol I-Box or other suitable accessory. Pin assignments are:



8. The timer is now ready to be programmed. See the *XT User's Guide* for programming instructions.

RACK MOUNT DRY CONTACT WIRING

The single pole-double throw relay is standard on the "rack 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

