

# MODEL: T21004R

## CLASS CTL DISTRIBUTION/CONTROL PANEL WITH TIME SWITCH



**IN RAINPROOF (TYPE 3R) ENCLOSURE  
SUITABLE FOR SWIMMING POOL/SPA APPLICATIONS AND FOR DIRECT CONNECTION OF UNDERWATER LIGHTS.  
60 AMP 120/240 VOLT OR 120/208 VOLT SINGLE PHASE, (THREE WIRE) AC**

*The short circuit rating of this panel is 10000 symmetrical amperes.*

**IMPORTANT:** This control panel must be installed according to the National Electrical Code (including article 680) or Canadian Electrical Code (including section 68) and local code requirements. This installation is subject to the approval by the local inspection authority. The main lugs and neutral main are suitable for No. 14 to 2 AWG **COPPER** conductors. Use No. 14 to 6 AWG **COPPER** conductors for branch circuit wiring. Follow gauge selection table and corresponding terminal screw tightening torque requirements below. Install interchangeable circuit breakers with an interrupting current rating of 10000 symmetrical amperes, or higher. All circuit breakers in this control panel shall be of the same manufacturer and type. See list of suitable types below. Follow manufacturers instructions for installing and testing of ground fault circuit breakers (GFCB) and interrupters (GFCI). Install only **APPROVED** receptacle(s) and/or wiring device(s) inside the enclosure. An **APPROVED** wiring device may be installed in the rectangular side knockout provided. When panel is outdoors, an **APPROVED** rainproof cover must be installed over the wiring device in the side knockouts. If this enclosure is used for direct connection of underwater lights, refer to 1999 NEC 680-21(b), 2002 NEC 680-24(b) or CEC 68-060, 062 and 066 for further details. This control should not be connected to any equipment which would cause bodily injury or property damage should it be activated unexpectedly. After wiring, install front panel over wiring compartment and close unused breaker openings with filler plates. **KEEP DOOR CLOSED AT ALL TIMES.**

SUITABLE LISTED BREAKERS						
MANUFACTURER	CIRCUIT BREAKER					FILLER PLATE
	SINGLE	DOUBLE	TWIN	QUAD	GFCB	
THOMAS & BETTS	TB	TB	TBBD	TBBQ	GFB	FP
CUTLER-HAMMER	BR	BR	BRD	BRD	GFCB	BRFP
G. E.	THQL	THQL	--	--	THQL-GF	TFH
SIEMENS/ITE	QP	QP	QT	QT	QPF	QF3
SQUARE D	HOM	HOM	HOMT	HOMT	HOM-GFI	HOMFP
MURRY-ELLIS	MP-T	MP-T	MH-T	MH-T	MP-GT	QF3

WIRING INFORMATION - COPPER CONDUCTORS					
MINIMUM WIRE SIZE AND TEMP.	MAXIMUM CURRENT CAPACITY	CIRCUIT BREAKER RATING*	MAX. MOTOR LOAD 75° C. INSULATION		TERMINAL TIGHTENING TORQUES
			120V.	240V.	
AWG.-75° C	AMP	AMP	HP	HP	LB-IN
14	15	20	3/4	2	20
12	20	25	1 1/2	3	20
10	30	40	2	5	20
8	50	60	--	--	25

**NOTES:**

- Any Intermatic T100M or ET100CM series Time Switch PF1000M Series freeze protection or RC2000M Series air switch mechanism may be installed in the bracket provided or in the event an existing mechanism is replaced.
- If this control panel requires bonding, attach an APPROVED bonding terminal of a suitable size using the mounting hole(s) provided on the bottom of the enclosure (156T11047A may be ordered).
- When a back-fed breaker is used in this control panel, order 22T904A to comply with NEC article 384-16 (g).
- Wiring devices may be installed in this control panel (order 21T156A (4) Standoffs for mounting).

**TIME SWITCH RATINGS:**

30 AMP. RESISTIVE, INDUCTIVE, TUNGSTEN OR 1000 VA PILOT DUTY - 120 VOLT A.C.

2 HP (24 FLA)-120 VOLT A.C.,

**CLOCK MOTOR: 120 VOLTS 60 HZ.**

(To order clock motor replacement, specify part no. WG--on motor cover)

**TIME SWITCH OPERATING INSTRUCTIONS**

**1. TO SET "ON" AND "OFF" TIMES:**



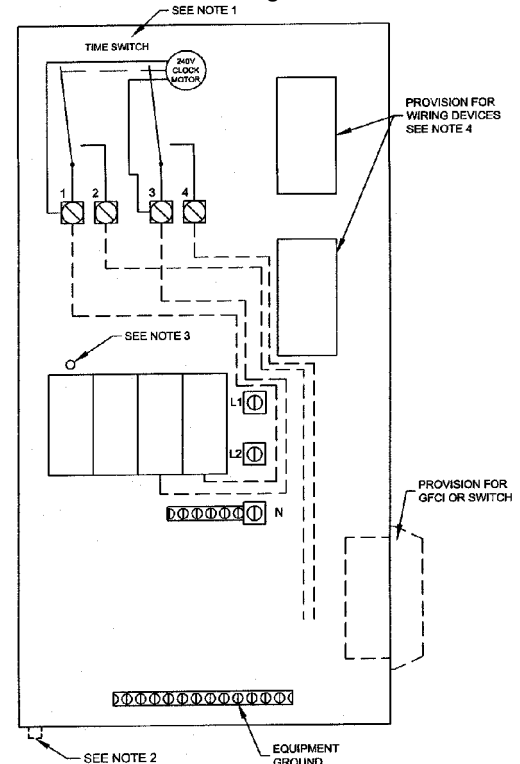
Hold TRIPPERS against edge of CLOCK-DIAL, pointing to time (AM or PM) when **ON** and **OFF** operations are desired. Tighten tripper screws firmly.

**2. TO SET TIME-OF-DAY:**

Pull CLOCK-DIAL outward. Turn in either direction and align the exact time-of-day on the CLOCK-DIAL (the time now, when switch is being put into operation) to the pointer.  
**-DO NOT MOVE POINTER-**

- TO OPERATE SWITCH MANUALLY:** Move MANUAL-LEVER below left or right as indicated by arrows. This will not affect the next operation.
- FOR MORE THAN ONE DAILY ON-OFF OPERATION:** Place additional tripper pairs on CLOCK-DIAL (order 156T1978A).
- IN CASE OF POWER FAILURE:** Reset CLOCK-DIAL to proper time of day. See step 2 above.

**\*Temperature rating of breaker must not be lower than the insulation rating of the conductor.**



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