

### NTC-17E PROGRAMMABLE TIME CLOCK

ELTEC has been a leading provider of traffic and timing controllers since 1968. The NTC-17E Series Time Clocks (a.k.a. time switches) are available with one, two, or four separately programmable relay outputs and can have up to 36 scheduled exceptions. The NTC-17E time clocks are available in AC, DC (solar) or the combination of both in one clock.

#### APPLICATIONS

- School Zone Crossing Signals
- Park Lighting
- School Bells/Shift Break Bells
- Changeable Message Signs
- Time Locks: gates & doors
- HVAC on/off Timing Function

#### STANDARD FEATURES

- Minimum 7 Day Capacitive Backup
- Non-Volatile Memory
- Momentary Outputs
- 1,2 or 4 Relay Outputs
- Programmable Momentary Outputs: 1-255 seconds
- 37 Programs
- 250 Program Steps
- 36 Alternate Programs
- 36 Exceptions
- Automatically Adjusts to Daylight Savings Time and Leap Year
- Unit to Unit Data Transfer
- Programmable from Computer with DLPRO 17E Software



#### NTC-17E series SPECIFICATIONS

Dimensions.....	8 1/4" H x 4 1/4" W x 1 3/4" D
Display.....	2 line Alpha/Numeric Backlit LCD
Keypad.....	Telephone Style
Outputs.....	4 SPDT Rated at 16A/120 VAC
Back-up Power.....	Capacitive: 168 Hours/7 Days
Time Base .....	+/- .0025% Crystal
Crystal Temp Coefficient.....	-.04 ppm/deg C2 Maximum
Line Voltage.....	95-135 VAC, 60 Hz
Power Required.....	2.5 Watts
Temperature Range.....	-30 deg. C to +74 deg. C
Electrical Connection.....	CPC with 48" Cable

# MORE INFORMATION & SPECIFICATIONS

## NTC-17E series TIME CLOCKS/TIME SWITCHES

**Display Assisted Programming:** LCD provides key word(s) with each entry for quick & easy programming. The display automatically advances to the next required command field or returns to the default display if all required information has been entered

**250 Program Steps:** each step designates a time which the state of one or more relays is to change. There is no limitation to the number of steps that can be assigned to any program as long as it does not exceed 250 in total when combined

**36 Alternate Program Schedules:** different than those assigned to the main program (#00) and is useful for scheduling holidays, meetings etc.

**36 Exception Periods:** used to suspend operations or run a different program schedule during holidays and/or special occasions

**1, 2, or 4 Separately Programmable Relay Outputs rated at 16 Amps 28VDC or 16 Amps 230 VAC:** can be individually programmed to turn ON or OFF up to a combined total of 250 times per day.

**Dual Mode Transfer Capability:** transfer all program information including time & date data or just time & date only for clock to clock synchronization

**High Speed Reset Circuit** prevents data corruption during unstable power conditions

**Three Watchdog Circuits:** automatically recovers from any recoverable fault

**Automatically Adjusts to Daylight Savings Time:** programmable via keypad or from computer (with DL Pro Software)

**48 inch Cable with CPC Included**

## DLPRO 17E SOFTWARE

ELTEC's DLPRO 17E software is used to program function(s) from a computer which can be entered via the keypad on all NTC-17E series time clocks. It runs on Windows 2000, XP or Vista operating systems. The DLPRO 17E software enables the user to perform the following functions:

### DLPRO Software FEATURES

- Develop an annual program including exceptions & transfer it directly to the clock
- Print annual program for hard copy record restoration in the event of a computer failure
- Save back-up programs for restoration in the event of a computer failure
- Sort steps by starting time
- Sort exceptions by starting date
- Disable/enable Daylight Savings Time
- Copy one annual program to another annual program for easy editing

The DLPRO 17E software kit consists of a CD, User Manual, a (6') program transfer cable and a RJ12 to DB9 serial port adaptor. The cable is used to transfer programming from the computer to the clock as well as transferring programs between the time clocks: clock to clock.

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