



# **DIGITAL TIME SWITCH**

E101PB



**FOR TECHNICAL SUPPORT:** 888.500.4598

TORK nsi 10

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MLI-202(REVB)

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**NOTE:** AFTER MAKING ANY CHANGES TO THE PROGRAM, PRESS **MODE** TO GO TO RUN MODE AND THEN PRESS **EVENT** TO UPDATE THE LOAD STATUS.

Sch.#	Load Description	Time	ON	OFF

#### TORK MODELS E101PB 24 HOUR DIGITAL TIME SWITCH

READ INSTRUCTIONS CAREFULLY BEFORE ATTEMPTING TO INSTALL TIME SWITCH. SEE WARNING ON FRONT PANEL — Failure to comply with instructions could result in personal injury and/or property damage.

#### **INSTALLATION:**

UNIT IS TO BE INSTALLED BY A LICENSED ELECTRICIAN

- 1. To remove unit from enclosure: Push the tab on right to swing unit the left and remove.
- Mount the enclosure at eye level using screws or other suitable fastening device. Bring supply and load wires in through or side knockouts. DO NOT USE TOP.
- 3. Unit should be programmed with AC power only and not while on super cap back up power.
- Reinstall unit by reversing step #1 above and connecting wires to units as per suggested wiring diagrams. See illustration and warning on back page.
- To reset the timer, insert a paperclip on the small hole next to the EVENT key. This procedure will allow you to reset the time but will not clear the memory.

#### **CAPABILITIES**

- 24 Hour Day scheduling.
- ON and OFF set points
   Total # 20 per day
- Minimum setting: 1 minute

#### **FEATURES**

Daylight SavingAutomatic (can be adjusted).Leap YearAutomatic compensation.

**Display** LCD

Manual Override Until the next schedule ON or OFF.

Automatic operation then resumes.

Power Outage Permanent schedule retention.

Supercapacitor maintains real time

up to 4 days.

8 1



Unit should be program with AC power.

Do not program on super cap back up power.

**Mode:** Press to go to the next mode. **Enter:** Stores or saves current entry.

#### DAY/YEAR:

- a. Press to set the year in the DATE mode.
- b. Selects the desired day of the week in the DST (Daylight Savings Time) mode.

#### OVR:

a. Press to change the load status in the AUTO (automatic) and the MAN (manual) mode.

#### DEL/PREV:

- a. Press to delete the displayed entry.
- b. Decrement the last selected entry.

#### HOUR/MONTH:

- a. Press to set hour in CLK (clock) mode and the SCH (schedule) mode.
- b. Press to set month in the DATE mode and DST (Daylight Savings Time) mode.

#### MINUTE/DATE:

- a. Press to set minutes in CLK (clock) mode and SCH (schedule) mode.
- **b.** Press to set date in the DATE mode.
- c. Press to select the week of the month in DST (Daylight Savings Time).

#### **ENTER:**

a. Press to store the displayed information into memory.
 Information will not be stored until the ENTER key is pressed.

**Note:** During settings, each press of the key will advance one number. For rapid advance hold key in.

#### EVENT:

- a. Press to select ON/OFF in the schedule.
- b. Press to update the load status In the AUTO (automatic) mode.

#### 7.0 NOTES:

- MAN mode: Under this mode the unit disregards the settings in the schedule mode and remains in its manually set status ON or OFF.
   NOTE: To resume regular schedule execution press the mode key to return to AUTO mode.
- Unit will go to RUN MODE automatically (except on the MAN mode) if no key is pressed for five minutes.
- Clear all memory. All memory can be cleared using the following procedure: While in the RUN mode, press ENTER, display will show:



Use **EVENT** key to display:



Now press **ENTER** briefly and everything in the timer memory will be erased, including real time and date. **NOTE:** Unit has permanent memory and will not be erased unless done through procedure above.

- Upon powering up your E101PB the display will show at what frequency the unit is operating,
   will determine 50Hz or 60 for 60Hz.
   NOTE: While in the AUTO mode, if AC power is absent, the display will show a PF (power failure) instead of the seconds scrolling up.
- 6. A "Lo" on the display indicates that the super cap has run low and the unit needs to be powered with AC. A minimum of 8 hours is required to fully charge the super cap.

#### 5.0 REVIEW, MODIFY AND DELETE

Press **MODE** to advance to any of the following MODES:

- 1. CLOCK MODE: Press **HOUR** and **MIN** to modify existing settings. Press **ENTER**.
- DATE MODE: Press MONTH, DATE and YEAR to modify existing settings. Press ENTER. DAY is automatically adjusted.
- DST Daylight Saving Time: To review press ENTER. To modify press MONTH, DATE and DAY to change existing setting. Press ENTER.
- SCHEDULE MODE: Press HOUR, MIN and EVENT to modify time settings. Press DEL to delete. Press ENTER after each modification.
- 5. RUN MODE: The time, day, seconds, the load status and AUTO is displayed.

#### 6.0 OVERRIDE

**OVR** (Override) is effective in the **AUTO mode** and the **manual mode**. **OVR** on the AUTO mode is effective until the next event. **OVR** on the manual mode is effective indefinitely.

#### **PROGRAMMING YOUR E101PB**

NOTE: AFTER MAKING ANY CHANGES TO THE PROGRAM, PRESS MODE TO GO TO RUN MODE AND THEN PRESS EVENT TO UPDATE THE LOAD STATUS.

#### AT POWER UP:

When powering up the unit for the first time, 12:00 will flash on the display. NOTE: Allow 1-2 minutes for the supercap to charge before any display is shown. Press the reset button after 2 minutes if the screen is blank.

Press the **MODE** key to go to the CLK mode. After pressing the **MODE** key the display will show:



#### 1.0 TO SET CLOCK

Press **HOUR** and **MIN** to advance to the present hour and mins. Check AM/PM, and press **ENTER**.

#### 1.1 TO MODIFY CLOCK

Press **MODE** until the display shows: CLK. Press **HOUR** and **MIN**. to modify clock and press **ENTER**.

#### 2.0 TO SET DATE

If you are setting for the first time, display will show



Press **MONTH**, **DATE**, and **YEAR key** to advance to the desired Month, date and year, then press **ENTER**.

**NOTE:** The day of the week will be automatically set once the date is set.

#### 2.1 TO MODIFY DATE

Press **MODE** until the display shows DATE. Press **MONTH**, **DATE** and **YEAR** to modify present settings and then press **ENTER**.

#### 3.0 DAYLIGHT SAVING TIME

After setting or modifying the date, display will show:



For standard USA daylight savings (DSt), press **MODE** then go to step 4.0. For dates other than standard USA dates, press **MONTH** and go to step 3.1. If daylight saving time (DSt) is NOT required, press **DEL** display will show:

Press ENTER then go to step 4.0.

## 3.1 TO MODIFY STANDARD USA DAYLIGHT SAVINGS DATES



Press MONTH and DATE, to modify S (starting) DST settings. NOTE: DATE will choose the week of the month to be assigned. Choices are 01 (1st), 02 (2nd), 03 (3rd) or L (Last) week of the month. The default day in SU (Sunday). Pressing DAY changes default day. EXAMPLE: 04:01 SU S represents the first Sunday in April.

Press **ENTER** and the display will show:



Press MONTH and DATE, to modify E (ending) DST settings. NOTE: DATE will choose the week of the month to be assigned. Choices are 01 (Ist), 02 (2nd), 03 (3rd) or L (Last) week of the month. The default day is SU (Sunday). Pressing DAY changes default day. EXAMPLE: 10:L SU E represents last Sunday in October.

Press **ENTER** and the display will show the modified DSt starting date.

Press **MODE** to go to step 4.0.

#### 4.0 SCHEDULE SET MODE

Press **MODE** until display shows:

#### 4.1 SETTING HOURS AND MINUTES

Press **HOUR** and **MIN** to set desired time. Press **EVENT** to set desired event (ON/OFF) and then press **ENTER.** The display will show:

Follow the same procedures above to set more schedule entries.