TORK[®] ISF INSTRUCTION MANUAL



DIGITAL TIME SWITCH 7 Day









FOR TECHNICAL SUPPORT: 888.500.4598

TABLE OF CONTENTS

Section

Page

	Installation Instructions and
	Capabilities 1
1.0	Clock Format
2.0	Clock Set Mode
3.0	Date Set Mode
4.0	Daylight Saving Time 3
4.1	To Modify Daylight Savings Dates
5.0	Duty cycle and Signal
5.1	To set Duty cycle and Signal 5
6.0	Schedule Set Mode
6.1	Setting Hours, Minutes, and Days 6
7.0	Review, Modify, and Delete 8
	Override Mode
	Wiring Diagram
	Schedule Sheets

TORK MODEL DG\$100A/DG\$100A-12/DG\$100A-24 7 DAY 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

- Remove unit from enclosure by pushing the inside tab (located near the outside hasp) to the right. Swing unit to left and remove.
- 2. 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. Reinstall unit by reversing step #1 above and connecting wires to units as per suggested wiring diagrams at back of manual.
- 4. Unit should be programmed with AC power. Do not program under super cap back up power.

AT POWER UP;

Connect unit to main power source prior to entering the settings. When powering up the unit for the first time, allow 1-2 minutes for super cap to charge and the display will show 12 HOUR. Press reset button after 2 minutes if screen is blank.

CAPABILITIES

- 7 day scheduling
- 56 set points
- 2 Duty cycle or signal durations

FEATURES

Daylight saving - Automatic (user selectable) Leap year - Automatic compensation Power outage - Permanent schedule retention. Super capacitor provides 7 days of real time back up. Manual override - Until the next scheduled event AM/PM or 24 hour format - user selectable Multi-Voltage Input: 120 – 277VAC

1.0 CLOCK FORMAT

The first time unit is powered up, it will display a flashing 12 Hour. Use **HOUR** key to set clock format to either 12 Hour (AM/PM) or 24 Hour. Press the **ENTER** key.



2.0 CLOCK SET MODE



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

3.0 DATE SET MODE

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 automatically set once the date is entered.

4.0 DAYLIGHT SAVING TIME

After setting or modifying the date, display will show:



- a. For standard USA daylight savings (DSt), press **MODE** and go to step 5.0.
- b. For dates other than standard USA dates, press **MONTH** and go to step 4.1.
- c. If daylight saving time (DSt) is NOT required, press **DEL** display will show:



Press ENTER then go to step 5.0.

4.1 TO MODIFY STANDARD USA DAYLIGHT SAV-INGS DATES

NOTE: The first two digits represent the month and the second set of digits represent the week in the month. Choices for week are 01 (1st), 02 (2nd), 03 (3rd) or L (Last) week of the month. The default day is Sunday (SU.) Once modified date set, the unit will automatically calculate the correct start dates in the future.

Now press **MONTH** and **DATE** buttons to modify the starting DST settings. Pressing **DAY** changes default day. EXAMPLE: A screen showing "04:01 SU S" represents April (04), the first week (01), Sunday (SU), and the Start (S) of daylight savings time.

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

Now press **MONTH** and **DATE** buttons to modify the ending DST settings. Pressing **DAY** changes default day. EXAMPLE: A screen showing "10: L SU E" represents October (10), the Last week (L), Sunday (SU), and the End (E) of daylight savings time.

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

Press **MODE** twice to go to step 5.0.

5.0 DUTY CYCLE AND SIGNAL

The Duty Cycle programming mode begins with a display that shows the ON duration first for Duty Cycle 1 and the OFF duration second. Programming both ON and OFF will enable the load to repeatedly turn ON then OFF.

The Signal Timer operation can be used by setting only

the ON duration of each duty cycle. Skip the OFF duration entry. The load will turn ON for the duration of the ON period, and it will not be repeated.

Once you've selected a cycle time, you need to program the schedule in Section 6.0. Schedule the events whenever you need to start and end the duty cycle or to execute a signal, such as school bells.

To skip, press the **MODE** key.

5.1 TO SET DUTY CYCLE AND SIGNAL

Press the **ENTER** key.

Press either **HOUR, MIN**, or **SEC** keys to set the time to the desired ON duration for the cycle (ON C1).

Press the **ENTER** key.

a) For signal timer application, press the **ENTER** key. b) For a cycle program, press the **HOUR**, **MIN**, or **SEC** keys to set the time to the desired OFF duration for the cycle (OFF C1). Press the **ENTER** key.



Follow the same procedures above to set the second signal or duty cycle entries.

Press **MODE** key to advance to next screen.

6.0 SCHEDULE SET MODE

Press **MODE** key until display shows:

6.1 SETTING HOURS, MINUTES, AND DAYS

Note: A schedule is needed for each event. If a typical ON/OFF pair is required, use SCH 01 for the ON event and SCH 02 for the OFF event.

Press the **HOUR**, and **MIN** keys to set the desired time. Press **EVENT** to set desired event (ON or OFF, C1, or C2)

Note: C1 or C2 will not be displayed if the duty cycle durations are not set in Step 5.

Press **DAY** to set desired day(s).

Note: With each **DAY** button push a different group of days will appear.



Press ENTER to save.



Follow the same procedures above to set more schedule entries.

Press **MODE** when schedules are complete.

Unit is in the AUTO (automatic) mode.

The word FLASH may appear to indicate a new program has been written to memory. Press the **EVENT** key once to activate current schedule then **EVENT** key again to return to AUTO mode.

7.0 REVIEW, MODIFY AND DELETE

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

1. **AUTO MODE**: In this automatic mode, the unit will execute the scheduled programs. Time, day, seconds and load status are displayed. C1 is displayed when Duty Cycle is programmed and operating.

OVERRIDE IN AUTO MODE: The load status of the channel can be manually changed by pressing the **OVRD** key. The unit will stay in this position until the next scheduled event. A flashing LCD load indication (ON, OFF) shows the status was changed by the override not a scheduled event. Press the **OVRD** key until ON or OFF stops flashing to return to programmed setting.

2. **MAN MODE**: In this manual mode, the unit will ignore the schedule programs. Time, day, seconds and load status are displayed. This can be used as a VACATION SETTING to keep load off while away. Use override to set to OFF position.

OVERRIDE IN MAN MODE: The load status of the channel can be manually changed by pressing the **OVRD** key. The unit will stay in this position until **OVRD** is pressed again. A flashing LCD load indication (ON, OFF) shows the status was changed by the override not a scheduled event.

3. **CLOCK MODE**: Press **HOUR** and **MIN** to modify existing settings. Press **ENTER** to save changes.

4. DATE MODE: Press MONTH, DATE and YEAR to modify existing settings. Press ENTER to save changes. DAY is automatically adjusted.
5. DSt MODE: Factory default is set at US standard

daylight savings dates noted by ON. To remove daylight savings time setting, press **DEL** to change screen to show OFF. DST may be activated again by pressing **DEL**. Press **ENTER** to save changes. To change from the standard DST month/ week/day setting press **HOUR** and refer to step 4.1.

6. **CYCLE MODE**: To change duty cycle timing, press either the **HOUR, MIN**, or **SEC** keys. Press **ENTER** to save changes.

7. SCH MODE: To change schedule, press ENTER to advance to desired event. Press HOUR, MIN, EVENT, and DAY to modify time settings. Press DEL to delete. Press ENTER after each modification to save changes.

NOTES:

1. Unit has a look back feature. Press the **EVENT** key once to activate current schedule then **EVENT** key again to return to the time (run) screen. Unit will automatically pick up the last schedule.

2. To clear date and time only and provide unit with a soft reboot, press and release the reset button that is recessed under the small hole to right side of LCD screen.

3. Clear all memory. To clear all memory, while in the RUN mode, press **ENTER**, display will show:

Use the **EVENT** key to display:

Now Press **ENTER** briefly and everything in the timer memory is cleared and 12HOUR will flash.

4. A "PF" on the display indicates a Power Failure and the unit requires AC power to operate. The time and date are protected for 7 days by the super cap. The program is retained in permanent memory.

5. 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.





DGS100A-12

NO







DGS100A-24



	SU					
	SA					
	FR					
	HI					
	WE					
	Π					
	0W					
	C					
dule	1					
Schei	0FF					
	NO					
	Time					
	Load Description					
	Ch.#					
	Sch.#					

	Cycle.	Times	
#	NO	OFF	Description
C1	: :	: :	
C2		: :	
1			



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