

**INITIAL START UP (Time Set Menu)**

- 1) On power up, enter the current **DATE** and **TIME** (Time Set Menu)
- 2) Turn **CYCLE TIMER "OFF"** prior to making changes to scheduler settings (Cycle Timer Menu)
- 3) Enter scheduler settings (Cycle Timer Menu)
- 4) Turn **CYCLE TIMER "ON"** after changes have been implemented (Cycle Timer Menu)

**SCHEDULER SETTINGS (Cycle Timer Set Menu)**

- 1) **CYCLES PER DAY** (# of Starts per Day)
  - The number of times a day (or within the cycle window) the engine starts
  - The minimum setting is one, maximum setting is 24
- 2) **RUN DURATION**
  - Period of time engine runs for each cycle
  - Minimum setting is 6 minutes
- 3) **RUN DAYS**
  - Days of the week for which the scheduler is active
  - Each day selected independently
- 4) **CYCLE WINDOW**
  - Period of time during a day (24 hour period) when the scheduler is active
  - The default time is 12:00am to 11:59pm
  - The window can be limited to a smaller range such as 9:00am to 5:00pm

**OPERATION**

- 1) With the **CYCLE TIMER (ON)**, the controller starts and runs engine according to selected routine.
- 2) With **CYCLE TIMER (OFF)**, the controller is in "Manual" mode.
  - In "Manual" mode, the engine is started by pressing the **ENTER** button as instructed on the display
  - The engine is stopped by pressing the **ENTER** button as instructed on the display
- 3) A manual engine shutdown **DISABLES** the **CYCLE TIMER**. The **CYCLE TIMER** must be turned (ON) to re-activate the auto start routine.

**SLEEP MODE**

- 1) In both "Manual" and "CYCLE TIMER" modes, the controller goes into a **SLEEP MODE** after 2 minutes to reduce power consumption.
- 2) In **SLEEP MODE**, the display goes blank and the yellow or red LED blinks every 10 seconds.
  - In "Manual" mode, the yellow LED blinks every 10 seconds
  - In "CYCLE TIMER" mode, the red LED blinks every 10 seconds
- 3) Pressing any of the buttons wakes the controller and turns on the display.
- 4) The controller wakes to start and run the engine according to the selected routine.

**MENU ACCESS AND NAVIGATION****ENTER MENU**

Hold down **MENU** button and press **ENTER** button to access menus

**NAVIGATE MENU**

Press the **MENU** button to scroll available menu  
Press the **UP** button to enter a menu  
Press the **DOWN** button to reverse direction  
Press the **ENTER** button to select a menu setting

**EXIT MENU**

Hold down **MENU** button and press **ENTER** button to exit menu

**AVAILABLE MENUS****Cycle Timer Set Menu - Scheduler Settings**

Cycle Timer Enable (ON/OFF)

*(NOTE: Turn ON after any setting changes or fault resets)*

Cycles per Day

Run Duration

Run Day of the Week (ON/OFF)

Cycle Window Start Time

Cycle Window End Time

**Time Set Menu - Set Current Day and Time**

Day (Select Day)

Clock Time (Enter Current Time)

**Module Configuration Menu (Password Protected)**

Display Contrast %

Display Backlight %

Hourmeter

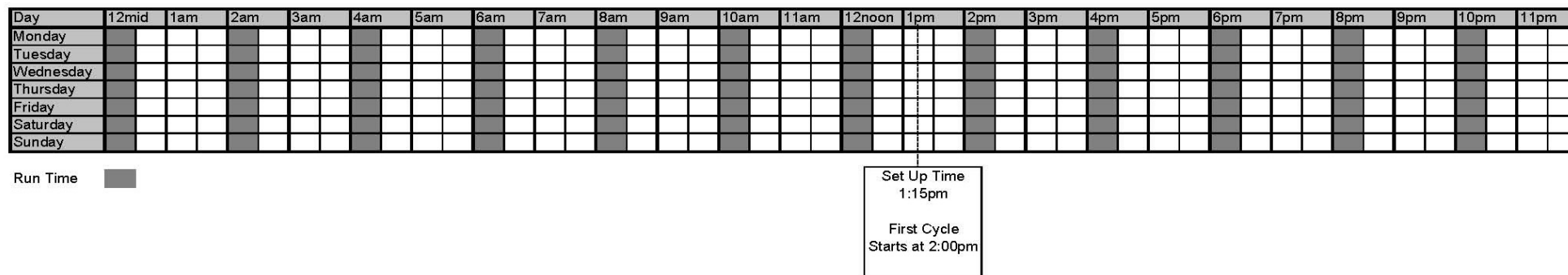
**OUTPUT TO ENGINE**

- 1) The timer module will provide a signal to the engine control to start and run the engine.
- 2) The factory configuration of this signal is normally open, close to ground when activated.
- 3) The ground signal is provided on pin 1 of the 14 pin AMP connector.
- 4) Factory wiring harness provides a ground signal on the common located on pin 2. For other signals, rewire the common to your preferred source. (NO AC VOLTAGE). Rated amperage is 5 Amps DC.

**EXAMPLE #1** (Current Day = Monday, Current Time is 1:15pm)

- 1) 12 starts per day
- 2) 30 minute run time
- 3) Cycle Window = 12:00am to 11:59pm
- 4) Operate 7 days a week (M,T,W,Th, F, S, Su)

The controller starts the engine 12 times per day or every two hours. The engine runs for 30 minutes per start. The start times are 12:00am, 2:00am, 4:00am, 6:00am, 8:00am, 10:00am, 12:00noon, 2:00pm, 4:00pm, 6:00pm, 8:00pm and 10:00pm. This routine continues 7 days a week. With a current time of 1:15pm the next start time is 2:00pm.



**EXAMPLE #2** (Current Day = Monday, Current Time = 1:15pm)

- 1) 8 starts per day
- 2) 30 minute run time
- 3) Cycle Window = 9:00am to 5:00pm
- 4) Operate Monday through Friday only (M,T,W,Th, F)

The controller starts the engine 8 times per day between the hours of 9:00am and 5:00pm. The engine runs for 30 minutes per start. The start times are 9:00am, 10:00am, 11:00am, 12:00noon, 1:00pm, 2:00pm, 3:00pm and 4:00pm. The routine is active only from Monday through Friday. With a current time of 1:15pm, the next start time is 2:00pm.

