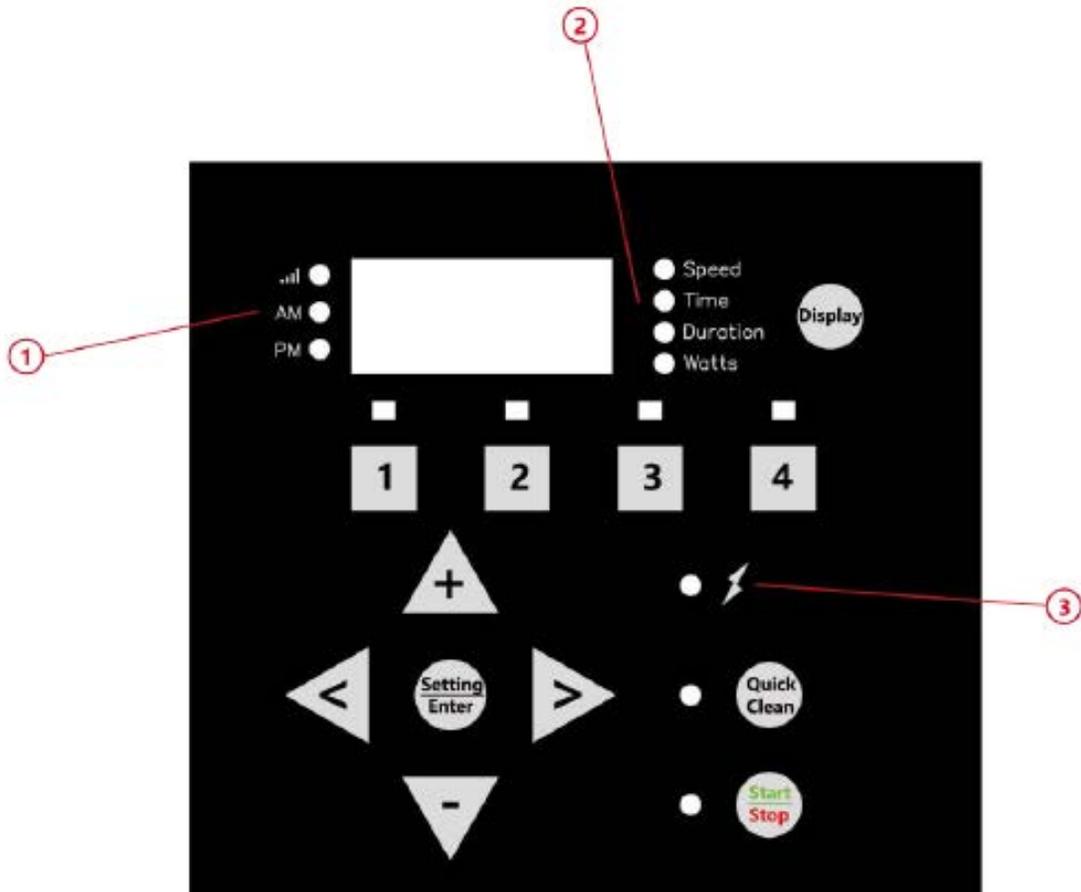
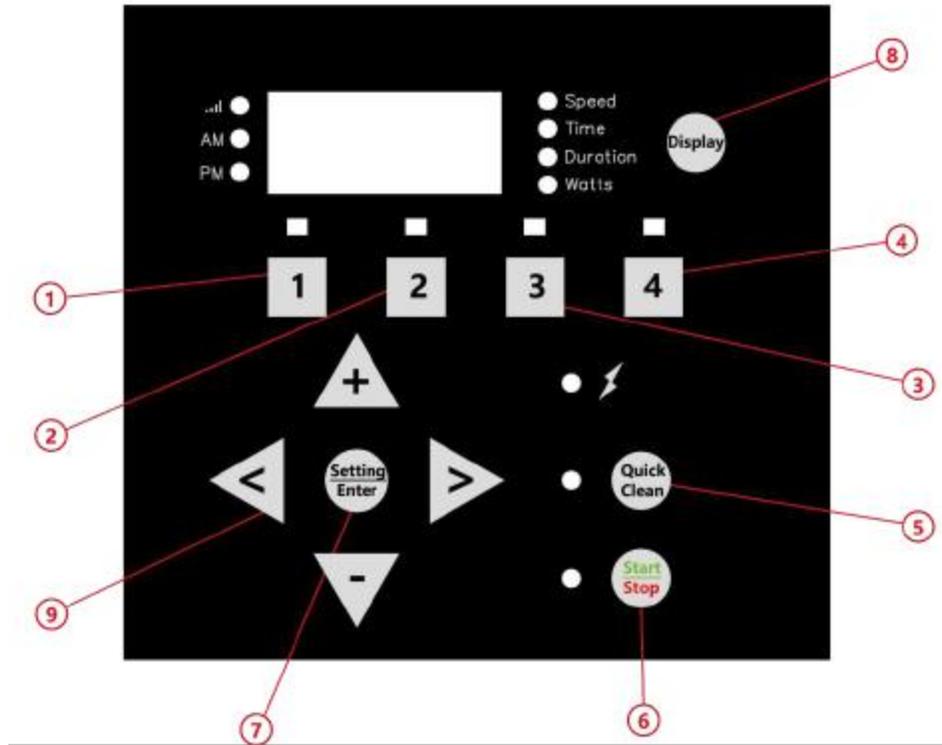


## Programming the Doheny In-Ground Variable Speed Pumps

Item numbers 90950 and 90951



1. AM/PM Indicator Light: Used to show whether the current time is in AM or PM
2. Speed/Duration/Time/Watts Indicator Light: Will have a glowing green light to show which measurement is being displayed.
3. Power Light: Will glow red to show that the pump is receiving power



1. Speed 1: Will have a green light above it to either show that speed 1 is currently running or to show that speed 1 is being adjusted.
2. Speed 2: Will have a green light above it to either show that speed 2 is currently running or to show that speed 2 is being adjusted.
3. Speed 3: Will have a green light above it to either show that speed 3 is currently running or to show that speed 3 is being adjusted.
4. Speed 4: Will have a green light above it to either show that speed 4 is currently running or to show that speed 4 is being adjusted.
5. Quick Clean: Will have a green light next to the button to either show that quick clean is running or that quick clean is being adjusted.
6. Start/Stop: Used to either start or stop the pump from running.
7. Setting/Enter: Used to lock in a setting when changed or to adjust the time.
8. Display: Used to cycle through the different display modes to show settings.
9. Arrow Keys: Used to make adjustments to time, speed, and duration.

## Adjusting the Time

Before making any changes to the default run schedule or starting the pump the time must first be set on the control panel. Follow the steps below in order to set the current time.



1. Press "Setting/Enter" to begin changing the time, the time light on the display will be highlighted and one of the digits on the display will flash.
2. Use the left and right arrow keys to change the flashing digit and adjust the time using the up and down arrow keys.
3. AM or PM will highlight on the right side of the display to show whether the set time is in the morning or afternoon.
4. Once the time is set press "Setting/Enter" a second time to lock in the set time.

\*If you are planning to use the default pump schedule that is shown in the manual then all that you need to do is set the time following the instructions above and then press "Start/Stop" to begin the default cycle. If you wish to create your own custom running schedule, please see the next pages for information on programming.

## Programming a Schedule



First some important notes:

- The minimum RPM that can be set is 1000 and the maximum is 3450.
- The total duration between options 1 through 4 must be 24 hours or less.

To begin the programming process first make sure that the pump is stopped and not running then follow the steps below.

1. Press "1" on the control panel, the speed option should light up next to the display and you should see the current set RPM.
2. Press "1" again to make adjustments, the numbers on the display should begin to flash and you can use the arrow keys to change to the desired RPM.
3. Press "1" again to lock in the speed and move to the time, use the arrow keys to change the desired time that you wish for the pump to start.
4. Press "1" again to lock in that start time and move to the duration, this is the amount of time you would like the pump to run at the speed you set earlier from the start time that you set in step 3.
5. Once the desired speed, start time, and duration have all been set press "Setting/Enter" to lock those settings in.
6. Repeat steps 1 through 5 above for the numbers "2", "3", and "4" on the control panel.

\*The next page will provide an example schedule and walk through all the steps of programming\*

## Example Schedule

For this example schedule, we would like the pump to follow the below information.

- Start at 6 a.m. and run at 2850 rpm for 4 hours
- Switch to a lower speed of 1500 rpm for 8 hours after that
- Switch back to a higher speed of 2000 rpm for 4 hours after that
- Finally switch to the highest speed of 3450 rpm for 2 hours

To do this we would follow the steps below:

1. Press "1" on the control panel twice to begin editing the first speed which you can then use the arrow keys to change the rpm to 2850.
2. Press "1" again to move to the start time, use the arrow keys to change the start time to 6:00 a.m. \*Be sure that the AM light is on and not the PM light next to the display\*
3. Press "1" again to move to the duration, use the arrow keys to change this to 4:00 so the pump runs at that speed for 4 hours.
4. Press "Setting/Enter" to lock in that setting
5. Press "2" twice to start editing the second speed and use the arrow keys to change this to 1500.
6. Press "2" again to move to the start time, we would set this to 10 a.m. since that is 4 hours after the start time we set for speed "1"
7. Press "2" again to move to the duration and use the arrow keys to change this to 8:00 so that it runs at that speed for 8 hours.
8. Press "Setting/Enter" to lock in that setting.
9. Press "3" twice to begin editing the third speed and use the arrow keys to change the rpm to 2000.
10. Press "3" again to move to the start time which we will set for 6:00 p.m. because it is 8 hours after the time we set for the second speed.
11. Press "3" again to move to the duration and use the arrow keys to change this to 4:00 so the pump runs at this speed for 4 hours.
12. Press "Setting/Enter" to lock that setting in.
13. Press "4" twice to start editing the fourth speed and set this to the maximum of 3450.
14. Press "4" again to move to the start time which we will set for 10:00 p.m. which is 4 hours after the time we set for the third speed.
15. Press "4" again to move to the duration and use the arrow keys to set this for 2 hours.
16. Press "Setting/Enter" to lock in those settings.
17. Press "Start/Stop" to begin the cycle.

\*In the example above the pump will stop running at 12:00 a.m. and start the cycle again the next day at 6:00 a.m. and will repeat this every day until the schedule is manually changed\*

### **Using a Quick Clean Cycle**

Quick Clean function similarly to the speeds in options 1 through 4 however will only run once and not repeat the following day unless manually set.

To set a Quick Clean cycle use the steps below:

1. Press "Quick Clean" on the control panel, the speed option should light up next to the display and you should see the current set RPM.
2. Press "Quick Clean" again to make adjustments, the numbers on the display should begin to flash and you can use the arrow keys to change to the desired RPM.
3. Press "Quick Clean" again to lock in the speed and move to the duration, the duration light will light up next to the display.
4. Use the arrow keys to adjust how long you would like to run the pump at that speed.
5. Press "Start/Stop" to start the pump in the quick clean cycle you just set.
6. Once the duration has ended the pump will go back to whatever cycle you have set up based on the time of day.

### **Resetting Pump to Default Schedule**

If you would like to remove a custom schedule that you had set and revert to the default schedule that is in the manual follow the steps below.

1. Make sure that the pump is stopped and not running.
2. Hold down "1" and "2" for 3 seconds.
3. Continue to hold as the pump start to beep continuously.
4. The pump will then stop beeping and display the time, all of the individual stages will now be set to the default schedule found in the manual.

\*Note that the time will not be reset and will always need to be manually changed if needed\*