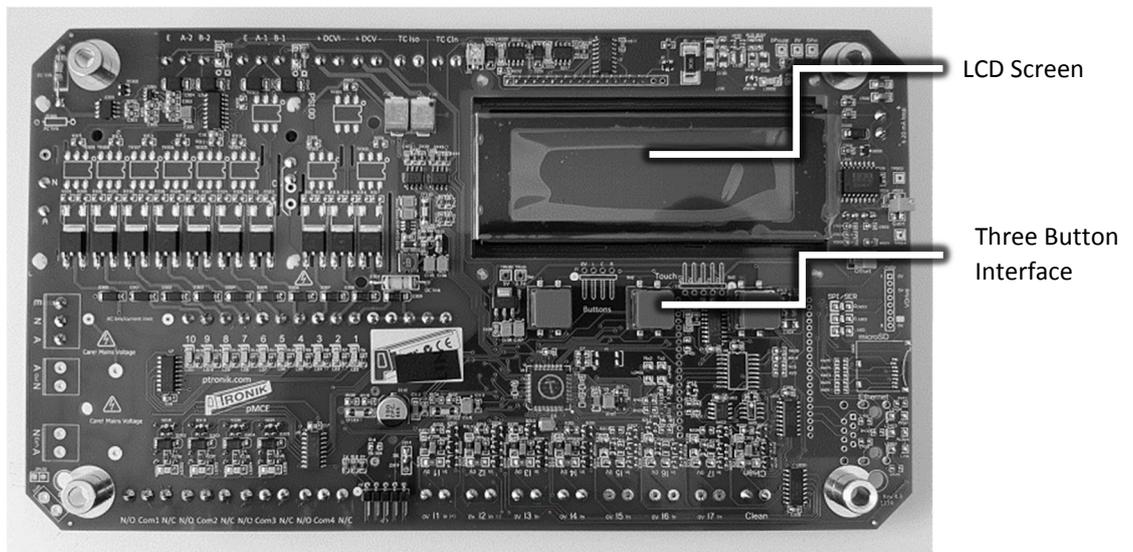
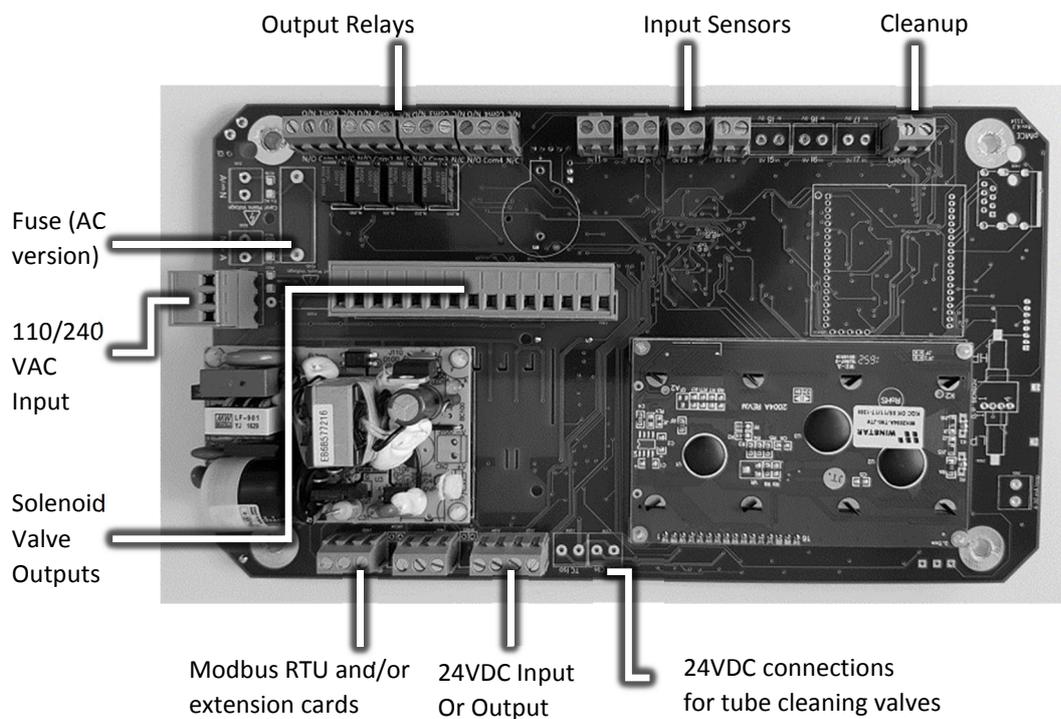


This quick start guide provides the user very basic information required to make the E10 controller pulse solenoid valves and to make changes to the time and pressure settings. The user is referred to the E10 manual for detailed connection and setup information and all safety and warning instructions. The E10 should only be installed by a suitably qualified person and all local electrical standards must be observed.

**Top Board Layout**



**Bottom Board Layout**



## Connecting Power and Solenoid Valves

If the E10 has been purchased as a complete unit then undo the 4 dome nuts and remove the face plate. Remove the PCB from the brass spacers to access the bottom of the board.



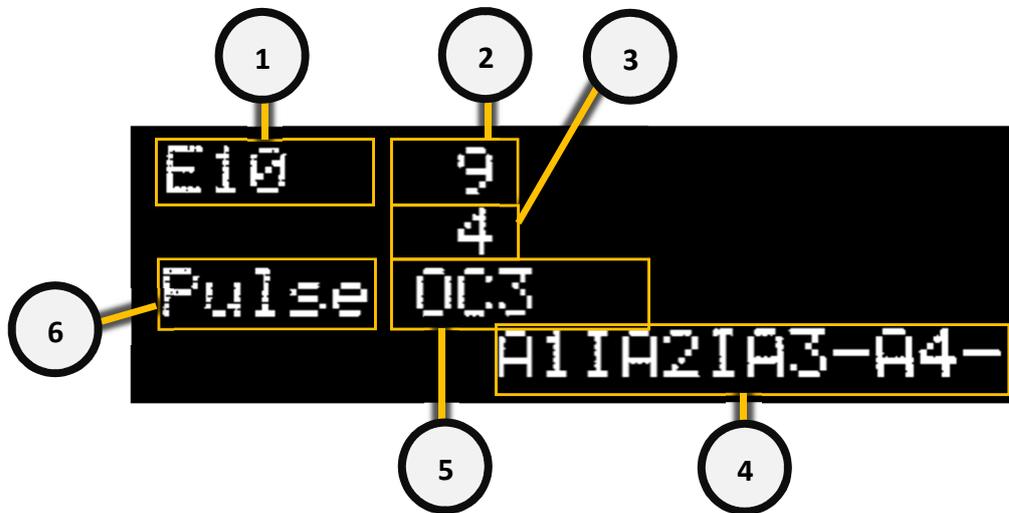
**DO NOT** double up solenoid valves, only connect one solenoid valve per position.

**DO NOT** mix commons between the main and extension cards if extension cards are connected. Doing both these will cause the E10 to detect valve faults.

	<p><b>DC SOLENOID VERSION - AC input power and 24VDC solenoid output</b></p> <p>For this configuration the AC input voltage can be between 100-240VAC, but the output voltage is fixed at 24VDC</p> <ol style="list-style-type: none"><li>1. Connect the 100 to 240V AC incoming power supply to terminal marked <b>ENA</b> (terminal J103). This plug is removable to assist the installation process.</li><li>2. Connect the 24VDC solenoid coils to terminal marked <b>SOLENOIDS</b> (terminal J306). This plug is removable to assist the installation process.</li></ol>
	<p><b>DC SOLENOID VERSION - DC input power and DC solenoid output</b></p> <p>For this configuration the DC input voltage can be between 10-30VDC and the output voltage to the coils is identical to the input voltage. So 10VDC in, 10VDC out. 24VDC in, 24VDC out etc.</p> <ol style="list-style-type: none"><li>1. Connect the DC incoming power supply to terminal marked DCVI (terminal J104)</li><li>2. Connect the 24VDC solenoid coils to terminal marked SOLENOIDS (terminal J306). This plug is removable to assist the installation process.</li></ol>
	<p><b>AC SOLENOID VERSION - AC power input and identical AC solenoid output</b></p> <p>For this configuration the AC input voltage can be between 100-240VAC and the output voltage to the coils is <u>identical to the input voltage</u>. So 240V in, 240V out. 110V in, 110V out etc.</p> <ol style="list-style-type: none"><li>1. Connect the 100 to 240V AC incoming power supply to terminal marked ENA (terminal J103). This plug is removable to assist the installation process.</li><li>2. Connect the 100 to 240V AC solenoid coils to terminal marked SOLENOIDS (terminal J306). This plug is removable to assist the installation process.</li></ol>

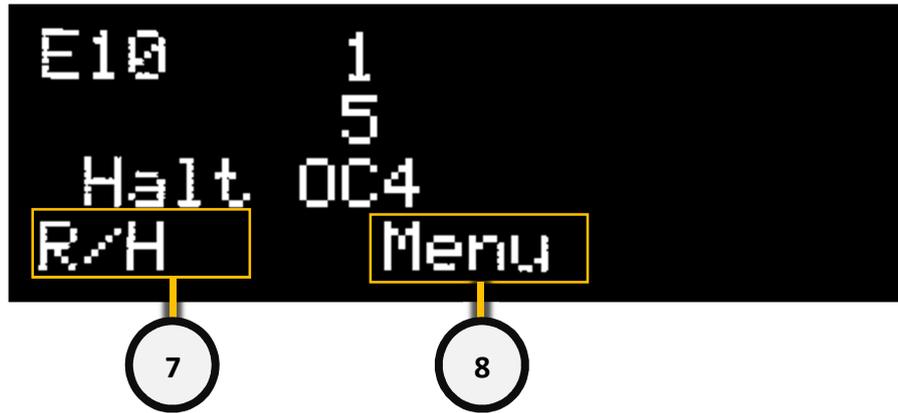
## Main Run Page

The main run page gives the user a snap shot of the current status of the dust collector. There is a lot of information on this screen so please take a minute to read this section.



<b>1</b>	<b>MODEL OF PTronik CONTROLLER</b>	Indicates the model of the PTronik controller. Visually the E10, E10 and E10 look very similar.
<b>2</b>	<b>COUNT DOWN TIME</b>	Indicates the time in seconds until the next valve pulses.
<b>3</b>	<b>NEXT VALVE</b>	Indicates the next valve that will pulse. This will be a number between 1 and 240 depending on setup and how many extension cards are connected.
<b>4</b>	<b>ALARM STATE</b>	Indicates the alarm status for alarms 1 to 8 (the screen will toggle between A1IA2IA3-A4+ and A5IA6-A7-A8-). <ul style="list-style-type: none"> <li>• I = Interrupt</li> <li>• - = alarm disabled</li> <li>• + = alarm enabled</li> <li>• * = alarm enabled and ON (activated)</li> </ul>
<b>5</b>	<b>SOLENOID STATE</b>	Indicates the last solenoid valve that fired and what the result of the valve as (whether the coil of the last valve is faulty or not). <ul style="list-style-type: none"> <li>• OK = NO Fault</li> <li>• OC = Open Circuit</li> <li>• SC = Short Circuit</li> </ul>
<b>6</b>	<b>MANUALLY STOPPING THE DUST COLLECTOR</b>	Indicates the current state of the controller. The dust collector can be manually halted if required. <ul style="list-style-type: none"> <li>• Halt = The dust collector has been halted either manually or by the differential pressure cleaning mode</li> <li>• Pulse = The dust collector is pulsing</li> </ul>

If any of the three buttons are pressed the following screen will appear. This allows the user to change between pulsing or halting and allow the user to enter the Menu section.



<b>7</b>	<b>PULSE OR HALT</b>	Press on the <b>left button</b> to manually change the state between Halted and Pulsing.
<b>8</b>	<b>MENU</b>	Press on the <b>middle button</b> to check alarms, enter maintenance mode or to alter the settings of the controller.

## Accessing the Settings Area

From the main screen, continue pressing the middle button until the **Enter CODE** page appears

<b>1</b>		<p>To enter the code, select the left <b>DOWN</b> or right <b>UP</b> buttons. The password code for all controllers is set to <b>4</b>.</p> <p>When this has been entered enter the middle <b>SET</b> button.</p>
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## Timer Settings

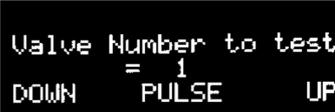
This menu allows the user to change the settings of the controller such as number of valves, sequencing, the pulse on and off times. Keep pressing **NEXT** until the **TIMER Setup** page is displayed.

<b>1</b>		To modify the controller timer settings, enter the middle <b>Select</b> button.
<b>2</b>		<p>This page specifies the number of valves connected to the E10.</p> <p>To alter the number of valves connected to the system use the left <b>DOWN</b> or right <b>UP</b> buttons. When the desired number of valves has been entered enter the middle <b>SET</b> button.</p>
<b>3</b>		<p>Keep pressing the set button to skip the next few pages until the user gets to OnTime page.</p> <p>This page modifies the length of the pulse duration.</p> <p>The pulse duration is user selectable in milli seconds (ms) and can be between 1ms to 999ms in length.</p>

		To alter the on time <b>OnTime</b> select the left <b>DOWN</b> or right <b>UP</b> buttons. When the desired on time has been entered enter the middle <b>SET</b> button. In this example the on time is 150 milli seconds.
4		<p>This page modifies the length of time between pulses. The interval between pulses is user selectable in seconds (sec) and can be between 1s to 999s in length.</p> <p><b>OffTime1</b> - This is the off time used during normal operation when the differential pressure is between Low and Fast settings (see ODC section following)</p> <p>To alter the off times, select the left <b>DOWN</b> or right <b>UP</b> buttons. When the desired off time has been selected enter the middle <b>SET</b> button. In this example the off time 1 is 15 seconds.</p>

## Maintenance Mode

Maintenance mode allows the user to manually pulse and test the valves. Keep pressing **NEXT** until the **Maintenance** page is displayed.

1		To enter maintenance mode, select the middle <b>SELECT</b> button
2		<p>This page allows the user to select the valve to test.</p> <p>To select the valve to pulse, select the left <b>DOWN</b> or right <b>UP</b> buttons. When the valve to be tested has been selected hit the middle <b>PULSE</b> button to test the valve</p>
3		<p>This page shows the test result of the valve just pulsed.</p> <p>The test result of the coil will be shown to the right of the <b>PULSED!</b> text and will be one of the following three possibilities</p> <ul style="list-style-type: none"> <li><b>OK</b> – The solenoid valve is functioning correctly</li> <li><b>SC</b> – The solenoid valve is showing a short circuit. This could mean the</li> <li><b>OC</b> – The solenoid valve is showing an open circuit. This could mean the valve is not connected or the coil has burnt out.</li> </ul> <p>Enter <b>DONE</b> to return to the main menu or <b>NEXT</b> to test and pulse another valve</p>

## Further Assistance Required?

If a full manual or further assistance is required then please contact PTronik

Tel: +61 2 4578 9611

Website: <https://www.ptronik.com/contact-us>

Email: [sales@ptronik.com](mailto:sales@ptronik.com)