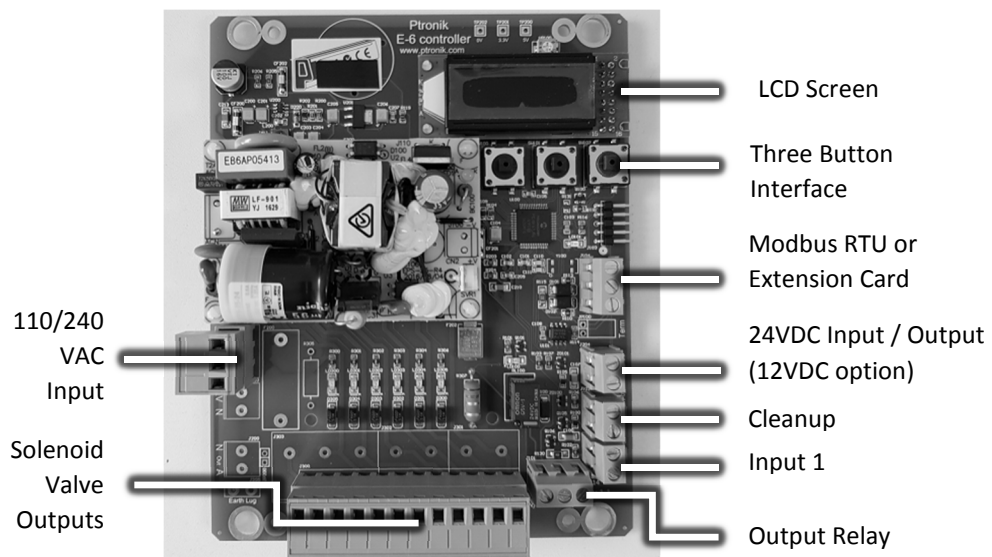


This quick start guide provides the basic information required to make the E6 controller pulse solenoid valves and to make changes to the time settings. The user is referred to the E6 manual for detailed connection and setup information and all safety and warning instructions. The E6 should only be installed by a suitably qualified person and all local electrical standards must be observed.

### Board Layout



### Connecting Power and Solenoid Valves

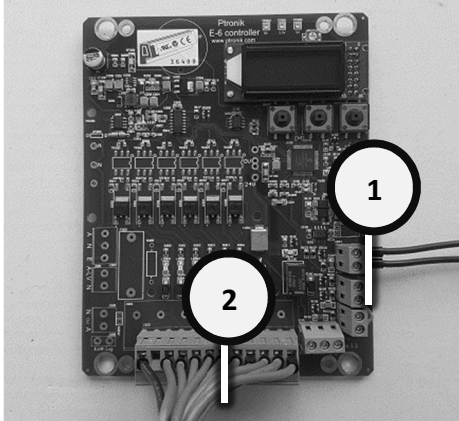
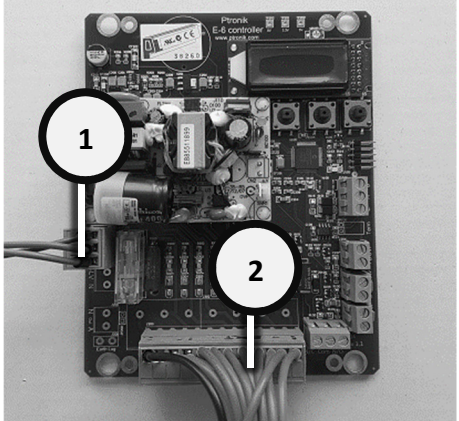
All connections on the E6 controller can be found on the top of the board.



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

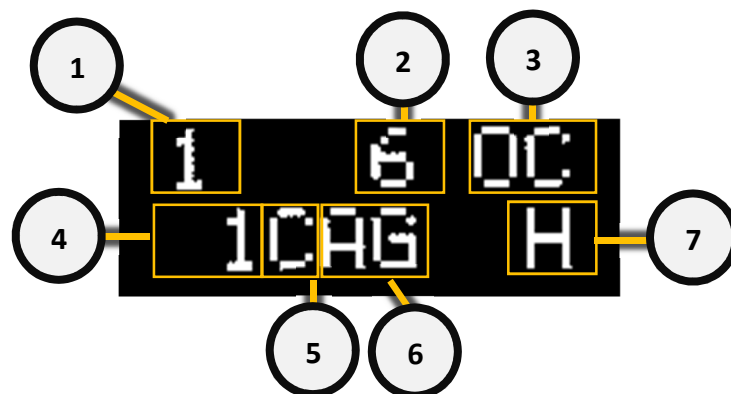
**DO NOT** mix commons between the main and extension card if extension cards are connected. Doing both these will cause the E6 to detect valve faults.

	<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>ANE</b> (terminal J203). This plug is removable to assist the installation process.</li> <li>2. Connect the 24VDC solenoid coils to terminal marked <b>SOLENOIDS</b> (terminal J300). This plug is removable to assist the installation process.</li> </ol>
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	<p><b>DC SOLENOID VERSION – 24VDC input power and 24VDC solenoid output (12VDC option available)</b></p> <p>For this configuration the DC input and output voltage is 24VDC.</p> <ol style="list-style-type: none"> <li>1. Connect the DC incoming power supply to terminal marked <b>DCVI</b> (terminal J204)</li> <li>2. Connect the DC solenoid coils to terminal marked <b>SOLENOIDS</b> (terminal J300). This plug is removable to assist the installation process.</li> </ol>
	<p><b>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 identical to the input voltage. 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 <b>ANE</b> (terminal J203). This plug is removable to assist the installation process.</li> <li>2. Connect the 100 to 240V AC solenoid coils to terminal marked <b>SOLENOIDS</b> (terminal J300). 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. To view alarms or change settings select the **middle button**.






1	<b>COUNT DOWN TIME</b>	Indicates the time in seconds until the next valve pulses.
2	<b>LAST VALVE</b>	Indicates the last valve that has pulsed.

3	<b>SOLENOID STATE</b>	Indicates whether the coil of the last valve is faulty. <ul style="list-style-type: none"> <li>• OK = NO Fault</li> <li>• OC = Open Circuit</li> <li>• SC = Short Circuit</li> </ul>
4	<b>NEXT VALVE</b>	Indicates the next valve that will pulse.
5	<b>CLEANUP CYCLE</b>	Indicates if the E6 controller is in cleanup mode. <ul style="list-style-type: none"> <li>• C = Cleanup Mode</li> <li>• blank = Normal Mode</li> </ul>
6	<b>ALARM STATE</b>	Indicates whether the input has been triggered. <ul style="list-style-type: none"> <li>• I = Interrupt Mode</li> <li>• AG = General Alarm</li> <li>• AC = Critical Alarm</li> <li>• DG = Dust Alarm for broken bag detection</li> </ul>
7	<b>PULSE or HALT</b>	Indicates the current state of the controller. <ul style="list-style-type: none"> <li>• H = Halted</li> <li>• P = Pulsing</li> </ul> Press on the <b>right button</b> to change the state from Halted or Pulsing.


## Maintenance Testing Mode

Maintenance testing mode allows the user to manually pulse and test the valves. This can help diagnose failed solenoid or diaphragm valves.

1		<p>This page allows the user to select the valve to test.</p> <p>If the user does not wish to test the valves press the <b>middle button</b> to go to the <b>Nx</b> next page.</p> <p>To select the valve to pulse select the <b>left button D (DOWN)</b> or <b>right button U (UP)</b>. The top line shows the valve number the user has currently selected</p>
2		<p>This page allows the user to test the valve.</p> <p>When the valve to be tested has been selected press the <b>middle button Puls (PULSE)</b>.</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>V XP</b> (valve X has been pulsed) 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 coil installed is incorrect, faulty or there's a bridge between commons and valves. CHECK WIRING.</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>To exit the maintenance mode use the <b>left button D</b>. To select another valve to test use the <b>right button Rep (Repeat)</b>.</p>


## Accessing the Settings Area

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

1		To enter the code press the <b>left button to decrease</b> or the <b>right button to increase</b> the code number. When this has been entered press the <b>middle button</b> . The password code for all controllers is set to <b>4</b> .
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## Valve Setting

Continue pressing the middle button until the **Valves** page appears

1		<p>This page specifies the number of valves the user requires.</p> <p>The PTronik controller will automatically detect the number of extension cards connected and calculate the maximum number of valves available. For the E6 the maximum valves is 6 (16 if the extension card is connected).</p> <p>To alter the actual number of valves connected to the system press the <b>left button to decrease</b> or the <b>right button to increase</b> the number of valves connected. When this has been entered press the <b>middle button</b> to confirm.</p>
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## Timer Settings

Continue pressing the middle button until the **OnT** page appears

1		<p>This page modifies the length of the pulse duration. The pulse duration is user selectable in milli seconds (ms) and can be between 1ms to 999ms in length.</p> <p>To alter the <b>OnT (on time)</b> press the <b>left button to decrease</b> or the <b>right button to increase</b> the on time. When this has been entered press the <b>middle button</b> to confirm</p>
2		<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>To alter the <b>OffTime</b> press the <b>left button to decrease</b> or the <b>right button to increase</b> the off time. When this has been entered press the <b>middle button</b> to confirm.</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.pttronik.com/contact-us>

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