

## D6 Programmable Sequencer

### Industrial Dust Collection and Air Filtration

The D6 is a new take on the classic dial based sequential timers. Featuring 6 outputs the timer is simple to operate and is controlled with two dials and a valve selector pin. Available as a stand-alone timer, or with an enclosure to suit the surrounding environmental requirements, the D6 is a solid state sequencer designed to provide an accurate adjustable pulse to operate pilot valves in Reverse Jet Pulse Dust Collectors.

#### Operational benefits

When compared to the classic manual dial controller the D6 digital programmable sequencer has a number of operational benefits for the user.

The first is the accuracy of the on and off times. On a basic timer the manual analogue dials only approximate pulsing values due to the coarseness of the resistive dials which can vary over 10%. This results in incorrect on and off times and increased air consumption or results in ineffective cleaning of the bags. The D6 is a digital controller and displays the on and off times on the small LCD display allowing the user to exactly specify these parameters and improving operational efficiency.

The second is the identification of faulty solenoid coils in either short or open circuit. A coil in short circuit can damage a normal controller due to over current and a coil in open circuit will result in ineffective cleaning as the entire row of bags will not pulse. An alarm notification is shown on the E6 screen or raised over external alarms.

The D6 also has an external interrupt terminal allowing the controller to be interfaced to a site PLC system or motor contacts.



#### Features

- Digital, solid state timer with LCD interface
- User adjustable on and off time settings via dial interface
- Displays countdown timer and next valve to pulse on HMI screen
- Electronic fault detection on each solenoid valve (short and open circuit detection)

The D6 timer controller to the left is shown mounted in a polycarbonate enclosure

# D6 SPECIFICATIONS

## TIMER

- Number of valves..... 1 - 6
- Maximum number of valves ..... 6
- ON time..... 50 - 500 ms
- OFF time 1..... 5 - 50 s
- Pulsing mode..... Sequential

## INPUTS

- Power supply ..... 110/240 VAC or 24 VDC.  
12VDC & others by request.
- One input ..... Digital (dry contact)

## OUTPUTS

- Solenoid valves ..... 110 to 240 VAC or 24 VDC

## DISPLAY - alphanumeric

- System status—Halted or Pulsing
- Number of the next valve to trigger
- Valve error

## ALARMS - standard

- Solenoid failure

## SIZE

- Height .....
- Width .....
- Depth .....
- Weight .....

### PCB only

- 150mm (6")
- 120mm (10")
- 50mm (2")
- 0.3Kg (1pd)

### ABS / Polycarbonate

- 180mm (7.2")
- 180mm (11.6")
- 75mm (5.2")
- 0.5Kg (1pd)

PTronik master controllers, designed and manufactured in Australia, are supplied as PCB only or in either explosion proof EXtD, ABS, Polycarbonate, mild or stainless steel enclosures, with or without solenoid valves fitted and are manufactured to international quality standards: ISO9001:2008.