

(DC+U+UW Series)

# DC Controller

## UNIVERSAL PWM

Recommended for...

- DC Control Circuits
- 5 to 30VDC input
- PWM Full Variable Control & Variable Resistor models
- Press Mech Dimming
- High Low levels (installer defined)
- Delay OFF Timer (installer set time)

### + EC Fans + LED Lighting

All you need for Low Voltage control of EC Fans and LED Lighting.

Connect GND, Input low voltage, then connect to the control input of your device, and you will have full control over the entire range.

Default is full range of voltage or set the minimum and or maximum trimmers with the screwdriver supplied, and you will have established the range your customer can control.

Use the KIWI to control the ON/OFF by connecting to the Delay OFF Timer terminal and set the delay time you require. When the user switches the terminal, the circuit will continue running until the delay times out. The circuit will only come back ON when they switch ON again removing voltage to the terminal.

Connecting to the High Low terminal ensures the application goes to wherever the maximum trimmer is set. Want a fan to go full speed with delay OFF, link Delay OFF Timer and High Low together.

Press Mech, Push Button, Momentary Switch dimming, call it what you want, the K001DCUW does it all, full push button control, and with ease.

### CONVERSION KITS

Model	KBC	KWC
	Black	White

Convert any KIWI to BLACK or replace the original white plastics.

- FITS ALL PLATES



### Available models listed below...

#### K001DC - DC Variable Resistor

- Standard full range control
- Minimum and Maximum (setable limits)

#### K001DCU - DC UNIVERSAL

- Standard full range control
- Minimum and Maximum (setable limits)
- Delay OFF Timer (variable time)
- Switch High Low (setable levels)

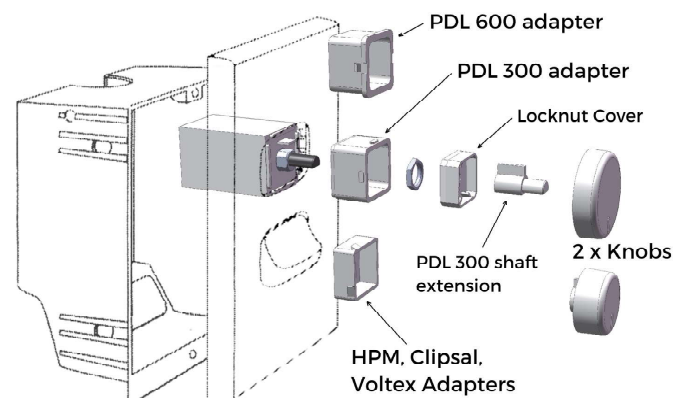
#### K001DCUW - DC Press Mech

- ALL functions of the UNIVERSAL above ... PLUS
- Press Mech/Push Button/Momentary Switch control option for multiple remote locations of On, Off, Up, Down Control.

### Product Specifications

- |                     |  |
|---------------------|--|
| • Input voltage     | 5 to 30volt DC                           |
| • Output voltage    | 0% to 98% of input                       |
| • PWM Output        | 120hz PWM                                |
| • Max per flush box | 6 x K001DC                               |
| • Ambient temp      | 25°C                                     |
| • Knob Rotation     | 270° with memory<br>360° (K001DCUW only) |

### Parts Assembly



**Fits ALL Plates**



Designed,  
Manufactured for you since 1994.  
Based in Mount Maunganui, NZ.

# Installation

## Step 1 - adaptors

### PDL:

- **600series**, fit the adaptor into the flush plate. Then fit the KIWI to the adaptor with locknut.
- **300series (Iconic)**, fit the adaptor to the KIWI with the locknut. Then fit the unit into the flush plate.
- For **600 and 300**, fit the locknut cover labeled "stop" side up or "no stop" for K001DCUW.
- **300 only**, fit the shaft extension to the shaft.

### HPM and Clipsal:

- Fit the adaptor to the KIWI with locknut.
- Fit the locknut cover, "stop" side up or "no stop" for K001DCUW.
- Click the unit into the flush plate.

## Step 2 - plate

- Fit the face plate cover (if required).
- Slide the knob onto the shaft.

## Step 3 - electrical

- 5~30VDC - DC Input Voltage
- CONTROL - 0 to 98% DC Output voltage
- 0VDC GND

## Quick Setup

### Step 1

Turn **Knob** anticlockwise to low.

### Step 2 (if required)

Turn **Minimum Trimmer** clockwise to set minimum level.

### Step 3

Turn **Knob** clockwise to full.

### Step 4 (if required)

Turn **Maximum Trimmer** anti-clockwise to set maximum.

### Step 5

Turn the **Knob** to full and back to low to ensure full desired range.

### Step 6

Connect switches to the Delay OFF Timer, High Low or Press Mech terminals as desired.

# Control Input Functions

## Delay OFF Timer

- Switch 5~30VDC Input to the Timer terminal to start the Delay OFF Timer countdown.
- Rotate the Timer trimmer clockwise to increase the delay OFF Time, up to a maximum of 20 minutes or anticlockwise down to 0 seconds.

## High Low Switch

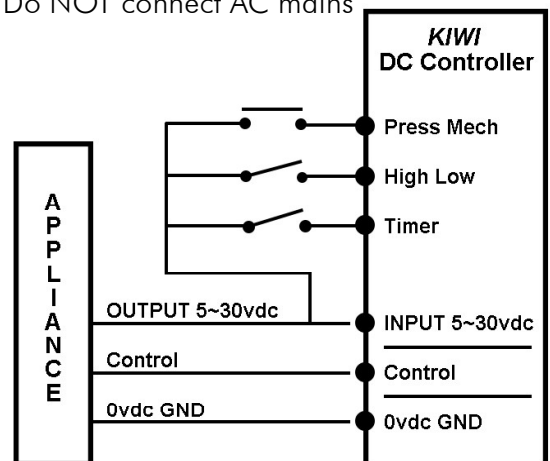
- Switch 5~30VDC Input to HighLow terminal will increase output to the maximum trimmer setting.
- Switching OFF HighLow will return to Low.

## Press Mech Control (K001DCUW only)

- Connect a press mech to the Press Mech terminal & supply from 5~30VDC Input.
- Short press of the press mech (if used) will turn OFF or turn ON to the last setting.
- If OFF, press and hold the press mech, turns the unit ON from low.
- Long Press will ramp UP or DOWN.
- Multiple press mechs can be wired in parallel.
- A Press Mech is not required for operation.
- Press the Dimmer knob to turn OFF or ON to the last setting.
- Rotating the knob clockwise while OFF, turns the unit ON to low.

## Connection diagram

- 5~30VDC - DC Input Voltage ONLY
- CONTROL - 0 to 98% DC Output Voltage
- 0VDC GND
- Do NOT connect AC mains



**If it's dimmable,  
We Can Dim it!**



**ALL KIWI Products have a lifetime return to base warranty against ANY and ALL manufacturing faults.**

**0800 820 821**

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