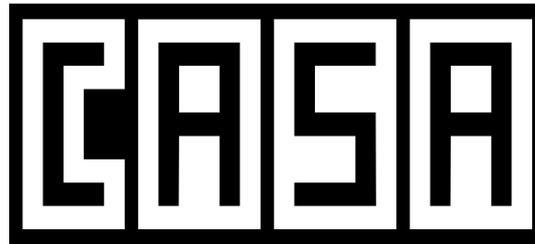


## DC Motor Control Unit - DCMCU



Designed to provide a simple Adjustable Speed Controller for small Permanent Magnet Direct Current Motors this product offers an economic solution to a wide range of Industrial Automation functions and other controlled rotation and manipulative processes.

### Special Features Include:-

- 1) Simple connection to 4 screw/clamp terminals.
- 2) Both Maximum and Minimum speeds can be pre-set independent from the main operator control
- 3) Reverse voltage protected electronics.
- 4) Provision for Stop-Start-Forward-Reverse external switching using readily available low cost components.
- 5) Over current and temperature protection for the controller.
- 6) New Zealand designed and manufactured (a more sophisticated microprocessor based servo motor option is also available for special applications which supports motor currents up to 50 Amps).

Single 1A 36V motor units are normally ex-STOCK and may be configured to a specific motor typically within 24-48 hours.

### General Specification Details:- *(see physical details on reverse of this data sheet)*

➔	<b>Voltage Range:-</b> (subject to specific motor/or speed range)	<b>1.5~36V DC</b>
	<b>Motor Current Range</b> (select for working load of motor)	<b>1~10 Amps (maximum)</b>
	<b>Minimum Motor Voltage</b> (pre-set on PC Board)	<b>1.5V (or define to order)</b>
	<b>Maximum Motor Voltage</b> (pre-set on PC Board)	<b>36V (or define to order)</b>
➔	<b>Operator Speed Control</b> (within the above pre-set limits)	<b>fully variable</b>
➔	<b>Voltage Management Technology</b>	<b>LM317 (up to 1.5 Amps)</b>
	(External Heatsink Assembly is required above 1 Amp)	<b>2N3055 (pass to 10Amps)</b>
➔	<b>Fixing Holes:-</b>	<b>4 Holes Tapped M4</b>
	(DIN Rail option also available to order)	<i>(See drawing overleaf)</i>
➔	<b>Temperature Rating:-</b>	<b>10~50 deg C ambient</b>
	(Relative Humidity)	<b>95% non-condensing</b>
➔	<b>Weight:-</b>	<b>0.25Kg (typical)</b>
	<b>Size:-</b> (Length x Width x Thickness)	<b>250x193x55mm (typical)</b>
	<b>Optional Packaging:-</b> (CASA's CB19 Instrument Box)	<b>Dust Proof / Drip Proof</b>

### Part Number:- DCMCU-xA-yV-(special adder/suffix)

Please compose a Part Number according to this system and use on your official order.

<b>DCMCU-</b>	Prefix to indicate "DIRECT CURRENT MOTOR CONTROL UNIT"
<b>xA-</b>	Current rating in AMPS (maximum continuous Motor current).
<b>yV-</b>	Maximum DC input VOLTS permitted by the motor controller
<b>VIVu-</b>	Lower Voltage = "VI", Upper Voltage = "Vu" (only specify if required)
<b>(-----)</b>	Special adder or suffix for custom or environmental design etc.