

DATA SHEET

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Ref - STEP-DR3.FRP

Stepper Motor Control Unit - SMCU



Designed to provide a highly VERSATILE Stand Alone Microprocessor Controller for Bipolar Stepper 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) ASCII Command Programmable from any PC or Terminal via RS-232c port (9 pin D-Sub connector).
- 2) Flash-ROM Storage of up to 4 groups of 5,000 step commands and stand-alone operation once programmed.
- 3) Ramp-Up and Ramp-Down (acceleration) profiles adjustable to suit any practical combination of motor and load.
- 4) Signal & switchable I/O ports for remote command signals (up to 8 are available depending on model selected).
- 5) Interactive Switch / Dwell / Pause functions provide refined control sequences and system protection etc.
- 6) Optional remote operator panel for "Start, Stop, Pause, Re-Set" push buttons.
- 7) Optional inputs for Chopper Encoded signal. This version is recommended for some position critical applications.
- 8) Custom programming and packaging can be undertaken to suit special applications and environments etc.9) New Zealand designed and manufactured. A servo motor option is also available for special applications.
- 10) Daisychaining options for complex applications requiring several interactive motors (using RS422 interface).

General Specification: (for physical details, see typical drawings on reverse of this data sheet)	
Step-Rates: (subject to specific motor or motors)	50~10,000 steps per sec.
Programme Steps (for single sequence)	1~5000 (expandable)
Interactive Input + Output Signals	4~8 I/O Signals
Operator Local or Remote Control	4~6 switches &/or lamps
Ramp-Up / Ramp Down:	fully variable
Pause / Dwell:	0~200 min.
Command Language: simple English characters	ASCII (under Forth)
Microprocessor Type / family	68HC11
Fixing Holes:	2 or 4 Holes tapped M4
(DIN Rail option also available to order)	(See drawing overleaf)
Temperature Rating:	10~50 deg C ambient
(Relative Humidity)	95% non-condensing
Weight:	3 kg (typical)
Size: (Length x Width x Depth)	250x193x55 mm (typical)
Standard Packaging:- (CASA's CB19 Instrument Box)	Dust Proof / Drip Proof

Part Number: SMCU-xAX-yAzV-CE(special adder/suffix)

Please compose a Part Number according to this system and use on your official order. SMCU-
xAX-
yAzV-Prefix to indicate "STEPPING MOTOR CONTROL UNIT"
x = Number of Motors to be driven from this controller.
y = Max Amps z = DC supply Voltage of each MotorYAZV-
CE-Optional Support for "Chopper Encoder" (for positional feedback)

-) Special adder or suffix for custom Software or environmental design etc.



This is a provisional data sheet - specifications and features are being updated regularly - please check for latest information. We invite your enquiries for special applications and for supplies of motors and drive accessories.

