

DATA SHEET

P.O. Box 38-828 PETONE, Wellington Phone - (64-4) 9393 777 FAX - (64-4) 9393 778

Date - 21st March, 2000

e-mail = sales@casa.co.nz

Ref - STEP-DR2.FRP

4~8 I/O Signals

4~6 switches &/or lamps

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 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).

One and two Axis units are normally ex-STOCK and configured to the specific stepper motor, typically, within 24~96 hours.

General Specification: (for physical details, see typical drawingsvon reverse of this data sheet) Step-Rates: (subject to specific motor or motors) Programme Steps (for single sequence) 1~5000 (expandable)

Interactive Input + Output Signals
Operator Local or Remote Control
Ramp-Up / Ramp Down:

Ramp-Up / Ramp Down: fully variable
Pause / Dwell: 0~200min.

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: 2.7Kg (typical)
Size: (Length x Width x Thickness) 250x193x55mm (typ

Size: (Length x Width x Thickness)

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. SMCUxAX-

SMCU- Prefix to indicate "STEPPING MOTOR CONTROL UNIT"

xAX- x = Number of Motors to be driven from this controller.

yAzV- y = Max Amps z = DC supply Voltage of each Motor

Optional Support for "Chopper Encoder" (for positional feedback)
 Special adder or suffix for custom Software or environmental design etc.



CASA File Ref.: DATA-SHT.FRP 10/11/92

