

MODEL E500



APPLICATION

The E500 intelligent stepper motor controller controls any stepper motor by means of a user-supplied translator that accepts a direction bit and a pulse-train input (negative true logic). The E500 also accepts pulse and direction inputs from a remote shaft encoder and implements an automatic correction algorithm to provide additional precision in critical applications.

TECHNICAL SPECIFICATIONS

PACKAGING

#1 width CAMAC module

221 mm H, 18 mm W, 292 mm D* (8.7" x 0.7" x 11.5")

*Depth front to rear panel. Rear connector 13 mm (0.5"). In conformance with the CAMAC standard for RF shielded instrumentation modules (IEEE standard 583, European Esone Report #EUR4100e).

TEMPERATURE

0° to 40° C (32° F to 104° F) to operate within specifications when installed in crate with enough air flow to hold maximum air exit temperature to 55° C (131° F).

COMPUTER COMMANDS

F(0)A(i) Read remaining magnitude (2's complement) CSR or base rate for channel i (see F(25))

F(0)A(i+8) Read absolute accumulator (2's complement) or pulse parameters for channel i.

F(1) A(x) Read module identification code (500). Must be preceded by A(2)F(25). X is any subaddress.

F(16)A(i) Write relative magnitude to channel i, two's complement.

F(16)A(i+8) Write absolute accumulator for channel i, two's complement.

F(17)A(i) Write SCR for channel i.

F(17)A(i+8) Write pulse parameters for channel i.

F(25)A(0) Load remaining magnitudes and current absolute accumulators for all channels into read registers.

F(25)A(1) Load CSR's and pulse parameters for all channels into read registers.

F(25)A(2) Load module identification (500) into read registers.

F(25)A(3) Start all motors simultaneously.

F(25)A(4) Load programmed and actual base rates into read registers.

F(25)A(i+8) Move channel i to "home" position, ie position 0.

