

## 2 CHANNEL AND 4 CHANNEL ELECTRONIC CONTROL UNIT

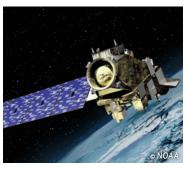


The Moog 2-channel Electronic Control Unit (ECU) is comprised of 2 Moog hybrid stepper motor controllers, an EMI filter, and 6 analog pass-throughs for telemetry. The ECU enclosure has been designed to allow 2 ECU's to be stacked to form a 4-channel ECU. The ECU contains all power conditioning, pulse sequencing and output driver stages necessary to drive two 3-phase motors. The system electrical interface consists of power and command

input lines, output motor drive lines and telemetry outputs. The required input commands are discrete for ENABLE and DIRECTION, and a pulse train on the STEP input. An initial discrete logic state on the ENABLE line will activate the control unit for the desired motor. On the DIRECTION line, one logic state enables clockwise rotation and the other state enables counterclockwise rotation. Motion is initiated by the application of a pulse train on the STEP command line.

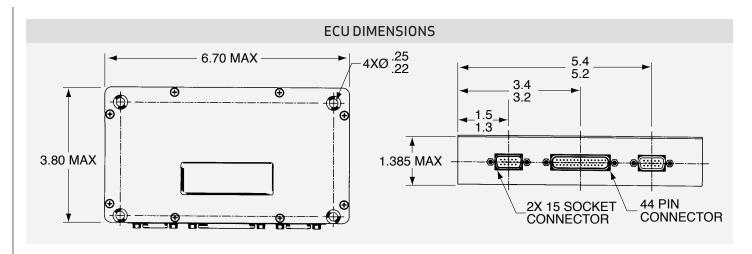






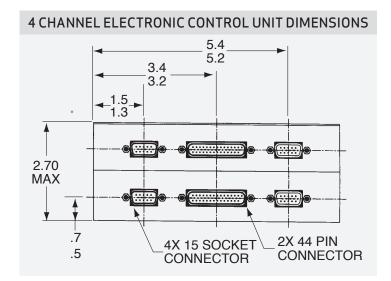


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## PERFORMANCE SPECIFICATIONS

Characteristic	Units	Basis	Data
Weight	Pounds	Standard	≤ 2.2
	kg	Standard	≤ .99
Slap Rate	Hertz	Standard	0-1000
Logic Power	Watts	Standard	≤ 0.7W@22V 1.5W@30V 3.6W@36V
Turn-On Surge	Amps	Standard	< 3A for 300 μs
Power Insulation	Mohms	Minimum	> 5 Megohm isolation between power return and ground
Operational Temperature	deg C	Standard	-35° to +60°
Survival Temperature	deg C	Standard	-45° to +75°
Operational Voltage	Volts	Standard	22 to 36V





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