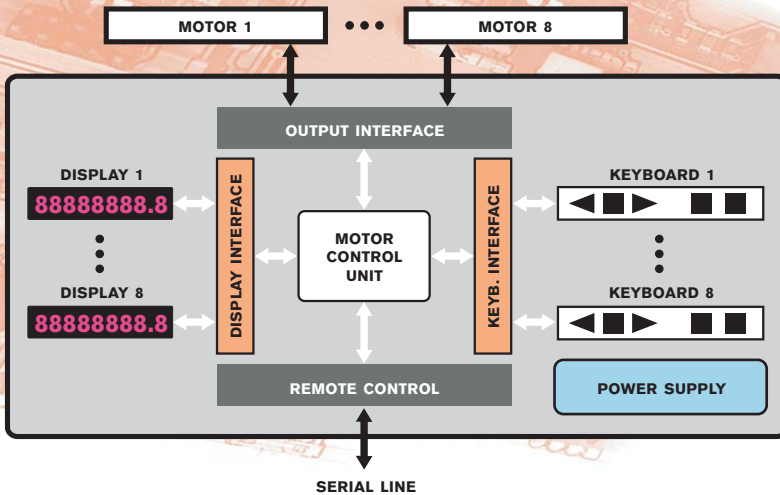




Precision Eight-Channel DC Motor Controller Model DCM 08

Micropositioning Control Units



Parameters

No of output channels	8
Output voltage	0 to 12 V DC
Travel range	up to 2 inch
Resolution	0.1 microns
Motor compatibility	Oriel encoder motor mikes, DC
Feedback	optical encoder 2 phase signals
Limit check	yes
Counter reset/preset	yes
Single step	yes
Jog (free running)	yes
Regimes	local/remote
Speed	fast/slow (2 fix values)
Communication	RS-232 (TxD, RxD, GND)
Baud rate	9600 Bd
Communication details	8 bit, 1 stop bit, no parity
Power	230 VAC, 50/60 Hz
Dimensions	19" × 4U × 280 mm (483 × 176 × 280 mm)
Weight	6 kg



DCM 08 is a precision controller for an independent control of up to eight low-power DC motors or actuators. The typical application of the device is positioning of optical elements (mirrors, lenses, etc.). A custom-made modification of the controller called "Internal Optics Positioning Stage" is presented on the photo bellow. This product is used for positioning of the main optical system in the interaction chamber in PALS laboratory (Prague's Asterix Laser System, CZ).

The DCM 08 controller allows both standard DC motor control (open-loop systems) and a feedback DC motor control (close-loop systems through encoder signals). The travel limit detection is implemented too. The position of each motor/actuator is indicated on a separated 8-digit red LED numerical display. The controller can be operated either locally or remotely via RS-232 serial line. A standard 4U-RACK is used as housing.

Functions: single step, jog, counter reset, speed control, local/remote regime.

Note: DCM 08 is a 8-channel modification of DCM 03. It allows sequential control of up to eight DC motors or actuators. All features, functions and parameters are identical with DCM 03.