

CLOSED LOOP DC SPEED CONTROL

OMDC-MD Series



- Adjustable Min/Max
- Adjustable Accel/Decel
- Adjustable Equivalent to Proportional and Integral Gains
- NEMA 4X (IP66) Rating
- Universal Power Supply
- Pulse Input Capacity of 50,000 PPM, 833 Hz
- Programmable Power-On Initial Settings
- Inhibit Mode is Selectable from Many Input Options
- Jog Function Selectable from Many Input Options
- Non-Volatile Memory Allows All Custom Settings to Be Stored for Future Use
- User-Friendly Programming from the Front Panel
- Program for Any Engineering Unit

The OMDC-MD Series is a compact, programmable DC speed control with digital closed loop feedback and LED display for DC motors rated to 2 horsepower. An on-board microprocessor with non-volatile memory, coupled with sophisticated internal software, makes the OMDC-MD series speed control the ultimate value in accuracy and control.

OMDC-MD3P
DC speed control, 10 A.



OMDC-MD10P
DC speed control, 5 A.
Shown smaller than actual size.

Programmable parameters include maximum and minimum set speed, decimal points, and operating mode (master or follower).

The OMDC-MD series speed control is simple to operate: set the desired RPM, rate, or time in the large ½" LED display by depressing the "Up" and "Down" pushbuttons on the front panel. Settings can be one digit at a time or fast sweep. The OMDC-MD series speed control settings are exact and repeatable. It will precisely control speed to ±½ RPM of set speed, long term. No calibrations of the control are necessary.

SPECIFICATIONS

Temperature: -10 to 45°C (14 to 113°F)

AC Input Voltage: 85 to 265 Vdc

Input Frequency: 50/60 Hz

Overload Capacity: 200% for 1 min

Transducer Signal Input: 0-5 to 0-24 Vdc

On-Board Power Supply: 5 Vdc, 50 mA

Faceplate Dimensions:

OMDC-MD10P:
115 W x 58 H x 117 mm D (4.539 x 2.289 x 4.625")

OMDC-MD3P:
115 W x 106 H x 117 mm D (4.54 x 4.18 x 4.625")

To Order

MODEL NO.	PHYSICAL	MAX ARM DC AMPS	MAX HP	INPUT	OUTPUT
OMDC-MD10P	½ DIN panel mount	5	½	120 Vac	0 to 90 Vdc
			1	240 Vac	0 to 180 Vdc
OMDC-MD3P	¼ DIN panel mount	10	1	120 Vac	0 to 90 Vdc
			2	240 Vac	0 to 180 Vdc
OMDC-MD3P-1	¼ DIN, provision for remote pushbutton	10	1	120 Vac	0 to 90 Vdc
			2	240 Vac	0 to 180 Vdc

OPTIONAL SENSOR

OMDC-PU-40E Shaft mounted pick-up sensor, 20 pulses per revolution

Comes complete with operator's manual.

Ordering Examples: **OMDC-MD10P**, digital closed loop DC speed control for max 1 HP motor with 5 Arm Amps, and **OMDC-PU-40E**, shaft mounted pick-up sensor with 20 pulses per revolution.