



MD50P-420 and MD40P-420



MD plus Series Digital Closed Loop DC Drive System

Ideal for Metering Pump and other applications requiring an isolated 4-20mA input/output signal

The MD plus is a field-programmable closed loop DC drive system employing an advanced velocity-form PID algorithm for accurate and responsive control. The MD plus system also features a unique, isolated 4-20mA input and output for easy integration with existing Process Control systems.

The MD plus system is ideally suited for metering pump applications by efficiently combining all of the application requirements into a single compact package. The MD plus system not only accepts a 4-20mA signal to control the pump speed, but it also provides a 4-20mA output signal back to the Process Control that is proportional to the actual running speed. Both the input and output signals are isolated from each other and from the control itself. The MD plus system also has two field-programmable Form C relay contacts that can be set to indicate a wide variety of conditions such as the pump is running, a "fault" condition exists, and many other events.

The MD plus system is available in both enclosed and panel-mount versions. The MD50E-420 version comes in a NEMA 4X enclosure complete with an auto/off/manual switch on the cover. The 1/8 DIN MD40P-420 and 1/4 DIN MD50P-420 panel-mount versions come complete with a NEMA 4X rated faceplate, gasket kit, stainless steel mounting hardware, and connections for an external auto/manual switch.

STANDARD FEATURES

- 1/50 to 2.0 HP range
- Universal power supply supports 85-265 VAC input
- 1/8 or 1/4 DIN panel mount with NEMA 4X faceplate, or NEMA 4 stand-alone enclosure
- Front panel field-programming (with lock-out jumper)
- Target and actual speed can be any engineering unit of measure
- Two alarm relay outputs (form C, 5 Amp @ 250 VAC)
- Large 1/2" LED display
- Master/Follower modes
- Displays set point or actual running speed
- Adjustable PID settings

AVAILABLE OPTIONS

- Custom faceplates for your Brand Name
- Pluggable euro-style terminal strip
- Provision for Remote Up/Down pushbutton switches

OPERATING SPECIFICATIONS

Ambient Temp	-10° to +45° C
Line Input Frequency	50/60 Hz
Overload Capacity	200% for 1 minute
Transducer Input	0-5 to 0-24 VDC
On-board transducer	
Power Supply	5 VDC, 50mA
4-20mA input/output accuracy	±1%

