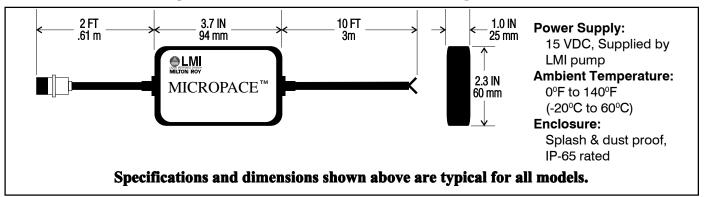
Instruction Sheet

Micropace™ Electronic Metering Control Modules



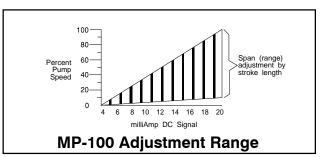
MP-100 Analog to Digital Converter

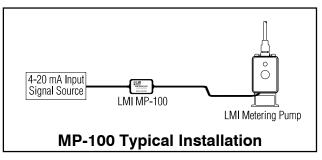
Input Signal Source: 4-20 mA (isolated) only.

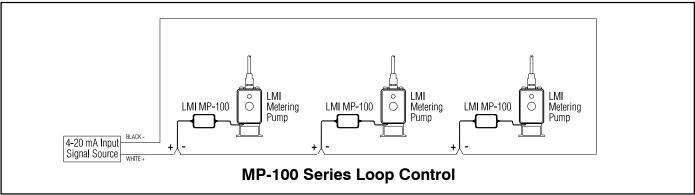
Max Input Voltage: 42VDC Impedance: 100 Ohms

INSTALLATION

- 1. Disconnect signal source supply voltage prior to connecting your MP-100. Failure to do so may damage the MP-100 circuit.
- 2. Insert the 4-pin connector into the socket on your LMI Series A7, B7 or C7 Metering Pump. The socket is located on the bottom right under the pump control panel.
- 3. Connect the other end of the cable to your input signal source. Polarity is: white = positive(+); black = negative (-).













MP-400D Pulse Divider (Counter) MP-500M Pulse Multiplier (Batch Signal Converter)

Switch Input (MP-400D & MP-500M):

A. 'On' Resistance: 5K ohms max. B. 'Off' Resistance: 100K ohms min.

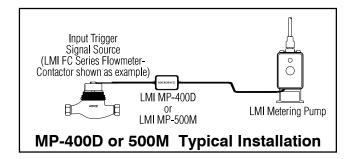
Min. switch closure time (MP-400D & MP-500M) low impedance state (on): 10 milliseconds Min. switch opening time (MP-400D & MP-500M) high impedance state (off): 20 milliseconds

Max. count speed or frequency (MP-400D):

1800 pulses per minute (30Hz)

Max. batch count or multiplier (MP-500M): 1023 pulses Pulse output rate or speed (MP-500M):

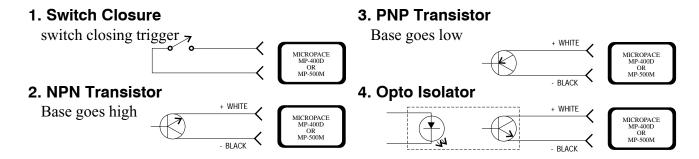
fixed, 100 + 2 pulses per minute



INSTALLATION

- 1. The MP-400D and MP-500M Signal Converters may be preset before connection to the pump or signal source, or may also be adjusted after connection.
- 2. Open the MP-400D or MP-500M cover by removing the four screws that hold the back cover on.
- 3. Follow the instructions inside the cover to set your Signal Converter. Use a pencil or ball point pen to slide the switches.
- 4. Replace the cover and the four screws.
- 5. Insert the 4-pin connector into the socket on your LMI Series A7, B7 or C7 Metering Pump. The socket is located on the bottom right under the pump control panel.
- 6. Connect the other cable to your input signal source. Polarity is: white = positive(+); black = negative(-).
- 7. Switch your pump to EXTERNAL. The count, division or multiplication will begin immediately. Switching the pump to OFF or unplugging the pump will reset the count.

METHODS OF TRIGGERING MP-400 AND MP-500M



NOTE: Switch or transistors must be capable of switching 2 milliamperes @ 15V DC. Combining additional **MICROPACE** TM units will increase the milliampere demand.