

MC6000 Multi-Channel Syringe Pump

FEATURES

- > Rotary shear valves with 1/4 –28 female ports offering integrated bypass capability
- > Full quadrature encoder for absolute syringe positioning
- > Front panel LED flow and status indicators
- > Valve Drive <250 ms between neighboring ports
- > Address a maximum of 15 pumps addressed individually

CUSTOMER REQUIREMENTS

- > Interface
 - Type USB, RS232, RS485 or CAN
 - Communication Rates RS232/RS485 9600 or 38400 baud
CAN 100 K, 125 K, 250 K, 500 K, 1 M baud
 - Format (RS232/RS485) Data Bits - 8, Parity - None, Stop Bit - 1
Half Duplex, Data Terminal and OEM protocols
- > Environmental (Operating)
 - Temperature 15°C to 40°C (59°F to 104°F)
 - Humidity 20 to 95% RH at 40°C (104°F)

CONFIGURED OPTIONS

- > Available in 4, 6 or 8 channel syringe configurations
- > Syringe Sizes: 50 µL, 100 µL, 250 µL, 500 µL, 1 mL, 2.5 mL, 5 mL

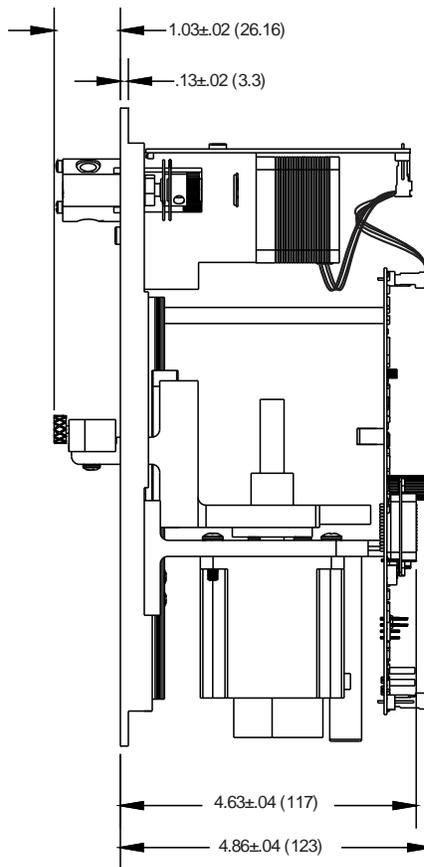
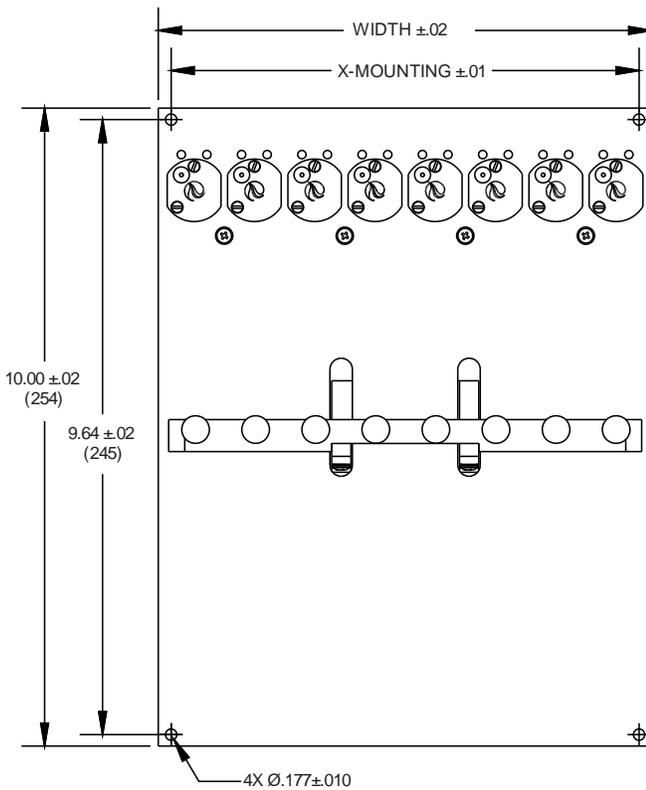
BASE MODEL

- MC6000-4
- MC6000-6
- MC6000-8



| SPECIFICATIONS | |
|-------------------------|---|
| Drive Design | Stepper motor/leadscrew with 30 mm of travel. |
| Stroke Speed | 1.2 seconds to 100 minutes per stroke (800 minutes in microstep mode). |
| Step Resolution | Standard mode 6,000 steps, Hi-Res mode 48,000 steps |
| Syringe Design | 30 mm stroke glass syringe with ¼ - 28 fitting PTFE seals (long-life UHMWPE seals available upon request) |
| Fluid Contact Materials | Syringe - Borosilicate glass (seal) PTFE or UHMWPE Valve - PEEK (body) and UHMWPE (rotary plug) |

| FUNCTIONAL PARAMETERS | |
|--|---------------------|
| Imprecision (full stroke) at 50 µL to 100 µL | < 0.1% CV |
| Imprecision (full stroke) at 250 µL to 12.5 mL | < 0.05% CV |
| Inaccuracy (full stroke) | < 1% syringe volume |
| Power Requirement | 24 VDC ± 10% |
| Power Rating | ≤ 1.5 Amp (peak) |



| NO. OF CHANNELS | WIDTH | X-MOUNTING |
|-----------------|-------|------------|
| 4 | 5.12 | 4.74 |
| 6 | 6.43 | 6.03 |
| 8 | 7.72 | 7.32 |

ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED
.XXX ±.008 (.02 mm)
(MILLIMETERS SHOWN IN BRACKETS)

PUMP AND VALVE SOLUTIONS FOR OEMS WORLDWIDE

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