

MC6000 Multi-Channel Syringe Pump

TRICONTINENT
by Gardner Denver

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
- > Accessories
 - Syringe Sizes: 50 µL, 100 µL, 250 µL, 500 µL, 1 mL, 2.5 mL, 5 mL

BASE MODEL

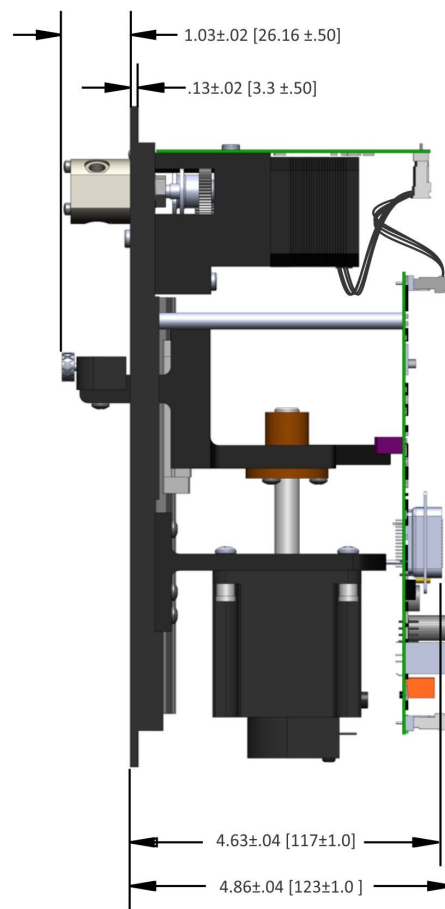
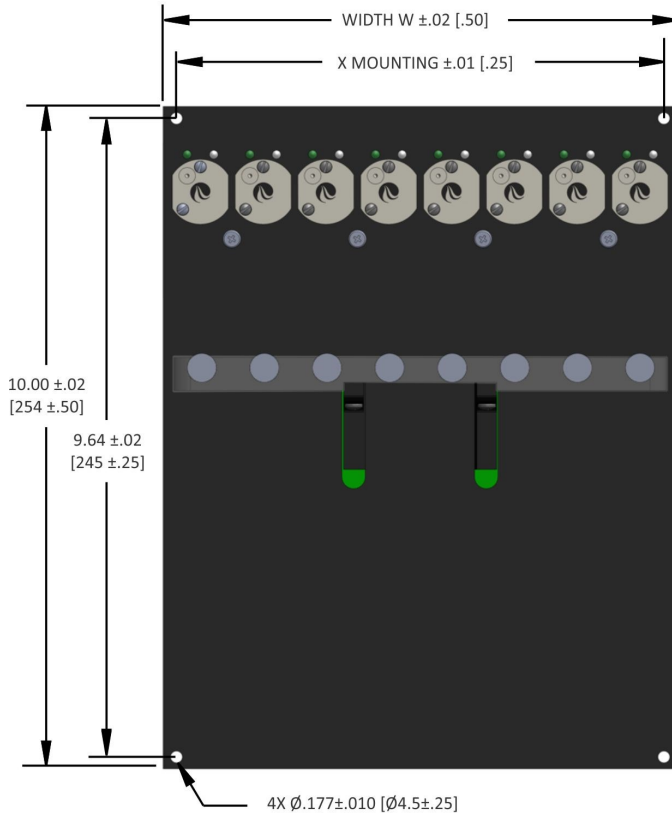
- MC6000-4
- MC6000-6
- MC6000-8



(Shown with optional Syringes)

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 in. [130 mm]	4.74 in. [120.4 mm]
6	6.43 in. [163.3 mm]	6.03 in. [153.2 mm]
8	7.72 in. [196 mm]	7.32 in [186 mm]

Note: Dimensions in inches [mm] unless otherwise specified.

MULTI-CHANNEL SYRINGE PUMP SOLUTIONS

tricontinent.com



TriContinent by Gardner Denver
 12555 Loma Rica Drive
 Grass Valley, CA 95945
 USA
 Tel: 800-937-4738
 Fax: 530-273-2586
liquidhandling.tcs@gardnerdenver.com

Gardner Denver Thomas GmbH
 Livry-Gargan-Str. 10
 82256 Fürstenfeldbruck
 Germany
 Tel: +49 8141 2280 0
 Fax: +49 8141 8892136
thomas.de@gardnerdenver.com

Gardner Denver Hong Kong, Limited
 Unit 1317-1318 Delta House, 3 On Yiu Street
 Siu Lek Yuen, Shatin, New Territories
 Hong Kong
 Tel: +852 26903502
 Fax: +852 27924598
thomas.hk@gardnerdenver.com

TRICONTINENT
 by Gardner Denver

The information presented in this material is based on technical data and test results of nominal units. It is believed to be accurate and reliable and is offered as an aid to help in the selection of TriContinent products. It is the responsibility of the user to determine the suitability of the product for the intended use and the user assumes all risk and liability in connection there with. TriContinent does not warrant, guarantee or assume any obligation or liability in connection with this information.

Photos of products pictured in this catalog do not necessarily represent a specific model number. To obtain further information for custom options, contact your local TriContinent office.

Printed in USA Form No. MKT90022 F © Gardner Denver TriContinent. All rights reserved.