MASTERFLEX®
I/P® SERIES INDUSTRIAL PROCESS CONSOLE PUMP SYSTEMS

NEMA 4X RATED ENCLOSURES FOR PROTECTION IN TOUGH PROCESS ENVIRONMENTS

Stainless steel and powder coated pump systems

Transfer, sample, meter or fill with these I/P Series production grade peristaltic pump systems. These easy-to-operate programmable systems provide improved efficiency in food, industrial process, and pharmaceutical applications.

- Integrated pump and drive system in a low contamination, corrosion-resistant NEMA 4X enclosure provides the reliability and accuracy
- In-situ pump calibration provides accurate and repeatable flow and aliquot dispensing
- Direct system integration provides compatibility with existing plant automation
- Regulatory compliance to ETL, cETL, CE, and RoHS mA outputs. (requires 77300-32 remote cable kit)

ZERODAY®

FEATURES AND BENEFITS

- Accurate speed within 0.1% and flow control better than ±0.5%
- Multi-language menu and universal power input provides global usage
- Digital display indicates flow rate and pump operation status (in metric or English units)
- Reversible, maintenance-free brushless motor with precise PWM control via digital signal processor
- Keypad lock feature prevents accidental usage
- NEMA 4X IP rated enclosure in stainless steel or powder-coated options provide a choice for the operating environment whether it is corrosive or high-purity
- Available accessories include remote control cable, foot switch, motor cable extensions and International power cord sets

Flow rates in mL/min (GPM)

	Precision pump tubings			High-performance precision pump tubing		
RPM	I/P 26	I/P 73	I/P 82	I/P 70	I/P 88	I/P 89
0.1 to 650	0.01 to 4000 (0.002 to 1.1)	1.3 to 8000 (0.0003 to 2.1)	2.1 to 13,000 (0.0006 to 3.5)	1.3 to 8000 (0.0003 to 2.1)	2.1 to 13,000 (0.0006 to 3.5)	3 to 19,000 (0.0008 to 5.0)

	I/P Console Pump Systems	
CATALOG NUMBER	**Powder Coated**	**Stainless Steel**
Pump System with Easy-Load® Pump	**MK-77714-04**	**MK-77714-07**
Pump System with High-Performance Pump	**MK-77714-05**	**MK-77714-08**
PERFORMANCE		
Max number of pump heads	2	2
Flow Capacity LPM (GPM)	0.006 to 19 LPM (0.0001 to 5.06 GPM)	
RPM	0.1 to 650	
Reversible	Yes	
External Control - Input	0-20 mA; 4-20 mA; 0 – 10 V; Dir (CW/CCW); Start/Stop; Prime	
External Control - Output	Scalable 1-20 mA; 4-20 mA; 0 – 10 V; 5 V tach output, motor running, Remote / Local Indication, Alarm	
ELECTRICAL SPECIFICATIONS		
Voltage (AC) 60/50 (Hz)	Universal input 90 to 260 VAC 60/50 (Hz)	
Current	4.5A @115V; 26A@230V	
Motor Type	Continuous duty, Brushless DC	
Motor Size	3/8 HP (280W)	
Speed Control Type	PWM (Pulse Width Modulated) with Microprocessor	
Digital Display	Four-line graphical LCD	
Speed Regulation (accuracy)	± 0.1%	
PHYSICAL SPECIFICATIONS		
Materials of Construction	Powder-coated steel and hard-anodized aluminum base	Electro-polished, 316 Stainless steel with hard-anodized aluminum base
IP Rating	IP66 / NEMA 4XIP66 / NEMA 4X	IP66 / NEMA 4X
Agency Approvals	ETL, cETL, CE, RoHS	
Operating Temperature	0 to 40°C (32 to 104°F)	
Storage Temperature	–25 to 65°C (–13 to 149°F)	
Noise Rating	< 70 dBA @ 1 meter	
Dimensions (Drive Only) (L x W x H)	16-11/16 x 11 - 1/8 x 12 - 7/8	
Dimensions (With Easy-Load pump) (L x W x H)	19-11/16 x 11 - 1/8 x 12 - 7/8	
Dimensions (With High-Performance Pump)	21-1/2 x 11 - 1/8 x 12 - 7/8	
Weight (Drive Only)	40 lbs	
Weight (With Easy-Load pump)	44 lbs	
Weight (With High-Performance pump)	48 lbs	

Accessories

MK-07575-80 Cable assembly, 31-pin round connector and 25 ft (7.9 m) cable with stripped wire terminal ends. Use for remote control

MK-07575-84 Washdown foot switch, 31-pin round with 6-ft (1.8 m) cable

FOR MORE INFORMATION:

503.582.9067 or 877.582.9067

support@zerodayllc.com

zerodayllc.com

ZERODAY®