

MASTERFLEX[®]

L/S[®] PRECISION PERISTALTIC PUMP SYSTEMS

PRECISE SPEED CONTROL WITH A WIDE RANGE OF APPLICATIONS

These precision pumps provide precise resetting of speed control and the option of controlling the pump flow from a remote signal. Use in a broad range of critical applications—from agriculture to chemical processing; and from chemical feed to filtration. They are designed to handle a wide range of fluids from the highest purity to extremely caustic solutions.

FEATURES AND BENEFITS

Easy to Use

- Intuitive control keypad uses common control symbols to indicate functions
- Accurate, reliable control of flow - digital display of RPM for accurate control
- Universal voltage – operate anywhere in the world. Unit accepts power cord set with IEC320 plug to adapt to local electricity
- Pump system interfaces directly with plant controls and allows remote control of flow, start/stop, remote/local condition, and flow direction control
- Quick start guide included for faster set-up

Easy to Maintain

- Low maintenance with minimum downtime — change tubing in less than 30 seconds
- Splash-resistant front panel
- Separate start/stop control allows you to maintain your flow setting when powering down



L/S Precision
Digital Peristaltic
Pump System

Diverse Performance Range

- Deliver flow rates from 0.06 to 3400 mL/ min with Masterflex L/S pump heads
- Cartridge pump flow rates: 0.001 to 1700 mL/min
- Choose from three speed ranges for optimum control
- $\pm 0.25\%$ speed control for greater accuracy
- Interface with other instrumentation remote control capability

Ergonomic Design

- Portable - motor and controller in one convenient package
- Molded handle for easy one-handed portability
- Space efficient - stackable design with a small footprint

FOR MORE INFORMATION:

503.582.9067 or 877.582.9067

support@zerodayllc.com

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Flow rates in mL/min (flow rates in parentheses can only be obtained with the High-Performance Pump Head)

| RPM | Precision pump tubing | | | | | | High-performance precision pump tubing | | | |
|----------|-----------------------|------------|------------|------------|------------|------------|--|----------------------------|----------------------------|----------------------------|
| | L/S 13 | L/S 14 | L/S 16 | L/S 25 | L/S 17 | L/S 18 | L/S 15 | L/S 24 | L/S 35 | L/S 36 |
| | Easy-Load II | | | | | | Easy-Load II and High-Performance | | | |
| 6 to 600 | 0.36 to 36 | 1.3 to 130 | 4.8 to 480 | 10 to 1000 | 17 to 1700 | 23 to 2300 | 10 to 1000 (11 to 1100) | 17 to 1700 (18 to 1800) | 23 to 2300 (26 to 2600) | 29 to 2900 (34 to 3400) |
| 3 to 300 | 0.18 to 18 | 0.65 to 65 | 2.4 to 240 | 5 to 500 | 8.5 to 850 | 12 to 1150 | 5 to 500 (6 to 550) | 8.5 to 850 (9 to 900) | 12 to 1150 (13 to 1300) | 15 to 1450 (17 to 1700) |
| 1 to 100 | 0.06 to 6 | 0.21 to 21 | 0.8 to 80 | 1.7 to 170 | 2.8 to 280 | 3.8 to 380 | 1.7 to 170 (1.8 to 180) | 2.8 to 280 (3.0 to 300) | 3.8 to 380 (4.3 to 430) | 4.8 to 480 (5.8 to 580) |

Note: Flow rates were determined using water at room temperature and with zero back pressure and zero suction lift. Higher flow rates in parentheses can be obtained only with High-Performance pump head.

| | Bench-top | Wall-mount |
|--|---|--------------------|
| CATALOG NUMBER | | |
| Pump System with Easy-Load II (Thin Wall) | MK-77712-36 | MK-77712-32 |
| Pump System with Easy-Load II (Thick Wall) | MK-77712-37 | MK-77712-33 |
| Pump System with High-Performance Pump | MK-77712-38 | MK-77712-34 |
| PERFORMANCE | | |
| Max number of pump heads | 2 | 2 |
| Flow Capacity (ml/min) | 0.36 to 3400 | 0.18 to 1700 |
| RPM | 6 to 600 | 3 to 300 |
| Reversible | Yes | |
| External Control - Input | 4-20 mA; 0 – 10 V; Remote / Local; Dir (CW/CCW); Start/Stop | |
| ELECTRICAL SPECIFICATIONS | | |
| Voltage (AC) 60/50 (Hz) | Universal input 90 to 260 VAC 60/50 (Hz) | |
| Current | 2.2A @115V; 1.1A@230V | |
| Motor Type | PMDC | |
| Motor Size | 1/10 HP (75W) | |
| Control Type | PWM (Pulse Width Modulated) | |
| Display (rpm) | Seven-segment, 3-digit, Blue LED, 1 RPM resolution (0.1 RPM for 1 to 100 RPM Range) | |
| Speed regulation (accuracy) | ± 0.25% | |
| PHYSICAL SPECIFICATIONS | | |
| Materials of construction | Aluminum, vinyl powder-coated aluminum, steel and ABS Plastic | |
| IP rating | IP33 | |
| Agency approvals | ETL, cETL, CE, RoHS | |
| Operating temperature | 0°C to 40°C | |
| Storage Temperature | – 25°C to 65°C | |
| Dimensions (L x W X H) | 26.7x20.3x20.3(cm)10.5x8x8(in) | |
| Shipping Weight | 6.9 kgs / 15.2 lbs (5.9 kgs / 13 lbs - drive only) | |

Configurations Offered

- Available in three standard bundles packages with Easy-Load II or High-Performance Pumps

Accessories

MK-07595-47 Cable assembly, DB9 male connector and 7.9-m (25-ft) cable with stripped wire terminal ends. Use for remote control.

MK-77595-35 Foot switch, DB9 male, with 1.8-m (6-ft) cable.

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