Masterflex® Digital Modular Dispensing Drives

Accurate repetitive dispensing in a convenient modular format!

- Modular design allows you to conveniently separate motor and controller by up to 15 feet (4.5 meters)
- Graphical LCD interface with four operating modes
- Precise flow regulation via easy-to-use menu-driven programming
- Antidrip function ensures dispensing accuracy
- Controllers are available in benchtop or washdown/wall-mount options
- L/S® or I/P® drives meet a wide range of flow rates
Precision digital drives offer four dispensing modes and low-maintenance brushless motors. Modular format lets you place motor and controller where convenient—up to 15 feet (4.5 meters) apart. Motors allow you to stack pump heads for increased flow rates and multichannel applications.

The four-line graphical LCD displays all operational parameters and intuitive menu-driven programming eases setup. The ±0.1% speed control offers accurate and repeatable fluid metering and transfer. Antidrip function prevents annoying end of cycle dripping and sample loss and increases dispensing accuracy.

Benchtop and washdown/wall-mount models are designed for accurate dispensing but are reliable enough for continuous-duty process applications. For easy integration into automated processes, you can control speed, direction, start/stop, and prime remotely.

Easy-to-use controller interface

Graphical LCD shows four operating modes:
- Continuous run
- Timed dispense
- Copy dispense
- Volume dispense

Remote control capabilities
- Speed control input: scalable 0 to 20 mA, 4 to 20 mA, 0 to 10 V
- Pumping direction: requires open collector or contact closure
- Start/stop/purge: requires open collector or contact closure
- Tachometer output: scalable 0 to 20 mA, 4 to 20 mA, 0 to 10 V, or open collector

Convenient controller input/output
- Connector for multifunction remote control
- Universal voltage and country-specific plug/cord set
- Separate power (on/off) switch to keep your settings when pump is turned off
Modular Drives with Benchtop Controller

- Splash-resistant ABS plastic controller housing is IP33 rated; drive housing is epoxy-finished steel, IP33 rated
- Include a 6-ft (1.8-m) cable to connect drive and controller; optional 9-ft (2.7-m) extension cable is available (see “Accessories” on back page)
- Remote control capabilities via DB25 female connector on back of controller

Washdown Modular Drives with Wall-Mount Controller

- Wall-mount controller housing is powder-coated aluminum, IP66 / NEMA 4X rated for washdown; powder-coated steel drive housing is IP66 / NEMA 4X rated for washdown
- Include a 6-ft (1.8-m) cable to connect drive and controller; optional 9-ft (2.7-m) extension cable is available (see “Accessories” on back page)
- Remote control capabilities via weather-resistant connection on controller
L/S® Digital Modular Dispensing Drives

– Ideal for laboratory or research applications. Accept all nine styles of L/S pump heads

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

<table>
<thead>
<tr>
<th>rpm</th>
<th>Precise pump tubing</th>
<th>High-performance precision pump tubing</th>
</tr>
</thead>
<tbody>
<tr>
<td>L/S 13</td>
<td>L/S 14</td>
<td>L/S 18</td>
</tr>
<tr>
<td>0.1 to 600</td>
<td>0.006 to 36</td>
<td>0.021 to 130</td>
</tr>
</tbody>
</table>

Accessories for benchtop models

MK-07523-97 Handheld remote controller; control start/stop, direction, and prime; route tubing through handle for dispensing and filling applications; 6-ft (1.8-m) cable. For 77301-40 only
MK-07523-92 Foot switch, momentary start/stop; 6-ft (1.8-m) cable
MK-07523-95 Cable assembly, DB25 male connector and 25-ft (7.9-m) cable with stripped wire ends for remote control
MK-77301-82 Extension cable, 9 ft (2.7 m); extends distance between motor and controller
MK-07523-94 DB25 male connector, use to create your own cable

Accessories for washdown models

MK-07575-84 Washdown foot switch, momentary start/stop; 6-ft (1.8-m) cable
MK-77301-82 Extension cable, 9 ft (2.7 m); extends distance between motor and controller
MK-07575-89 Cable assembly, 31-pin round connector and 25-ft (7.9-m) cable with stripped wire ends for remote control

Flow rates in LPM (GPM) per channel

<table>
<thead>
<tr>
<th>rpm</th>
<th>Precision pump tubing</th>
<th>High-performance precision pump tubing</th>
</tr>
</thead>
<tbody>
<tr>
<td>I/P 26</td>
<td>I/P 73</td>
<td>I/P 82</td>
</tr>
<tr>
<td>0.1 to 650</td>
<td>0.0006 to 4.0 (0.0002 to 1.0)</td>
<td>0.001 to 8.0 (0.0003 to 2.1)</td>
</tr>
</tbody>
</table>

I/P® Digital Modular Dispensing Drives

– Ideal for higher flow rate applications such as manufacturing, industrial, or large-volume transfers

Flow rates in LPM (GPM) per channel

<table>
<thead>
<tr>
<th>rpm</th>
<th>Precision pump tubing</th>
<th>High-performance precision pump tubing</th>
</tr>
</thead>
<tbody>
<tr>
<td>I/P 26</td>
<td>I/P 73</td>
<td>I/P 82</td>
</tr>
<tr>
<td>0.1 to 650</td>
<td>0.0006 to 4.0 (0.0002 to 1.0)</td>
<td>0.001 to 8.0 (0.0003 to 2.1)</td>
</tr>
</tbody>
</table>