



1-800-637-3739 masterflex.com



Reimagine Fluid Handling Operate, collaborate and connect with ease

Masterflex[®] L/S[®] MasterSense[™] Drives





Reimagine an easier way to pump with the **MasterSense drive**. Intuitive programming and forward-looking features enable you to work smarter and pump easier than ever before. And, with the same great features as all Masterflex peristaltic pump drives including high precision, repeatable flow control, and reliable performance, you can have it all in one small footprint—even more bench space.

Intuitive touch-screen interface Easy programming functionality Innovative forward-looking features Multiple connectivity options Versatile system components





Intuitive Touch-Screen Interface

- Quick and easy to set up and program
- 5" capacitive TFT/RGB touch screen with a clear, wide viewing angle
- Adjust parameters with a simple touch—even with gloves on

Easy & Accurate

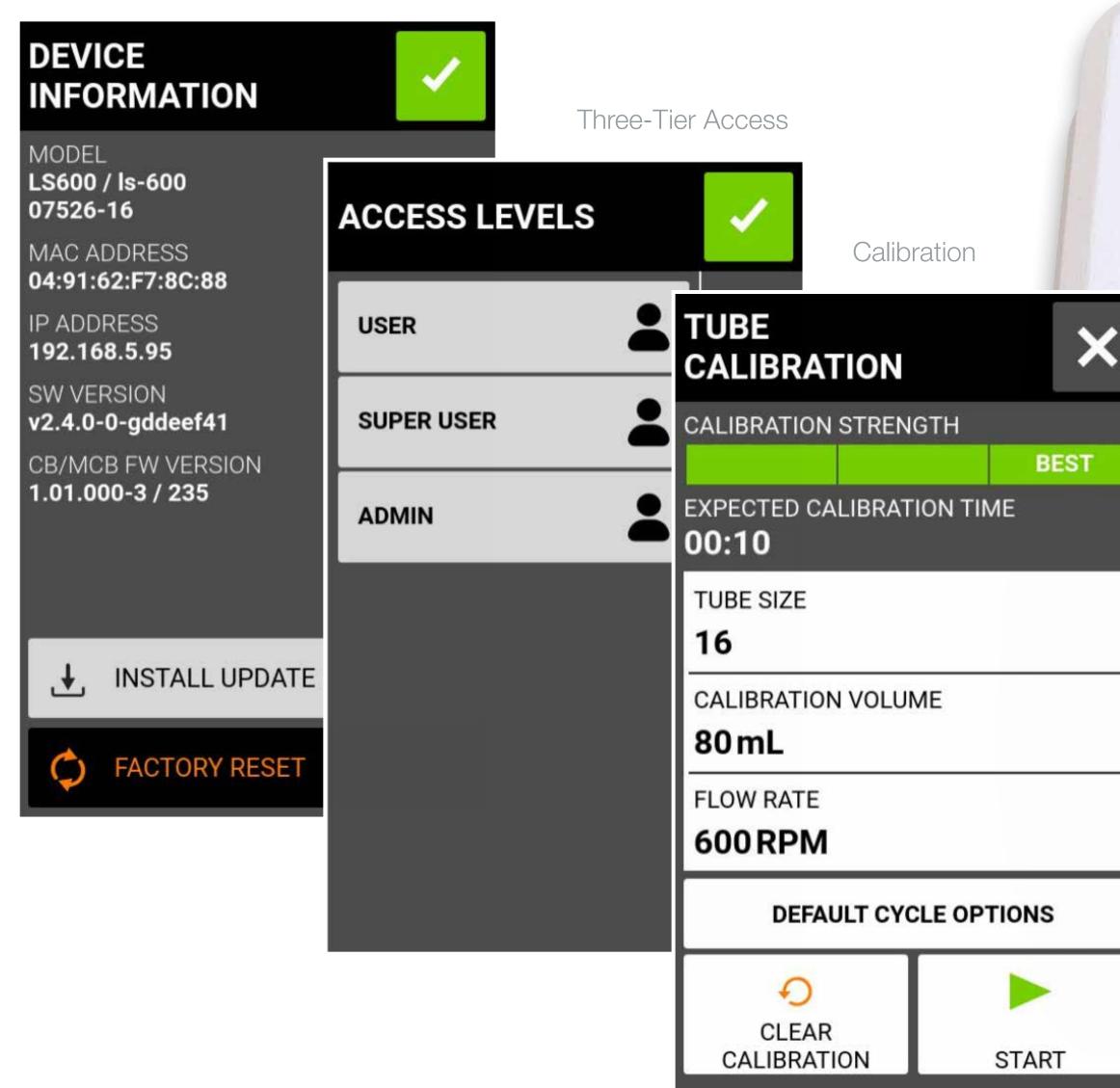
- Operational modes include continuous run, volume dispense, and time dispense
- Save and recall up to 50 commonly used protocols, each with a unique name
- Batch control and interval/off time in volume and time modes
- Antidrip and speed ramping available in volume mode—ensure accuracy and minimize sample loss



Continuous Run

Time Dispense

Over-The-Air Firmware Update





Innovative Features

- Over-the-air firmware updates—allows you to take
 full advantage of future
 enhancements. Rest assured
 you will always have the
 latest technology on your
 MasterSense drive.
- Three-tier access to pump functionality—use this option to protect your process by controlling who can operate the pump and at what level.
 Offers two-factor security with user name and password required.
- Know when you hit your mark graphical indicator lets you know when loaded tubing is
 optimally calibrated

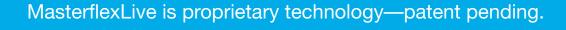
Connectivity Options

Get your preferred way to work with **multiple ways to operate the drive** via touch screen, analog remote, or choose a connectivity option. When you need remote pump control and monitoring, our cloudbased MasterflexLive® technology would be the ideal choice. For a digital protocol to suit your automation needs, we offer EtherNet/IP[™] or Profibus capability.

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- Choice of connectivity options— MasterflexLive[®], EtherNet/IP[™], or Profibus

 MasterflexLive—our secure, cloudenabled platform for remote monitoring and control of critical processes running 24/7 without the need for onsite personnel. Push notifications alert you to changes in operating conditions and error messages. Upgrade to premium for operational data storage in our Microsoft Azure secured cloud platform that complies to both FDA 21 CFR Part 11 and EU Annex 11.



MediaPump1

 Stopped Intime 1g 3t 34th 4th / Pr(Jun 14, 2019 13:43:10 (Art) doop

C Local / Remote Mode

Pump Direction



Operating Mode

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Trie Digetal

Batch Count

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Tube Size

Flow Rate

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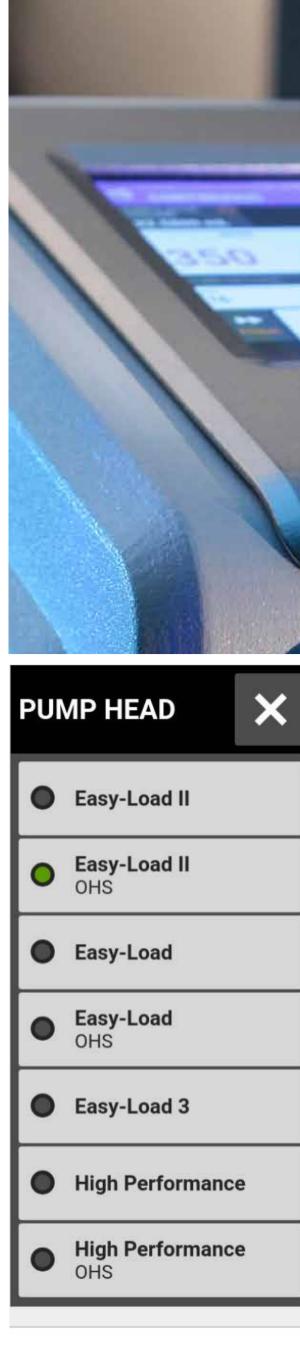
Powerful Performance

- Broad flow range, from 0.001 to 3400 mL/min, for use on the process floor and in the lab
- Internet connection via Wi-Fi or standard Ethernet (RJ45) jack on rear of drive
- Open-head sensor technology stops the drive motor when pump head is opened or connect it to a remote leak detector to indicate ruptured filters, blown gaskets, or leaky tube connections
- Brushless, maintenance-free motor provides ±0.1% speed control accuracy with 6000:1 turndown ratio
- Bidirectional flow and self-priming capabilities allow for **smooth**, seamless operation



Versatility— A Pump Head for Every Application

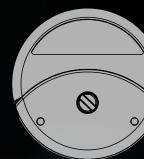
Build the pump system for your specific needs with ten styles of Masterflex L/S pump head available. All are compatible with the MasterSense drive.



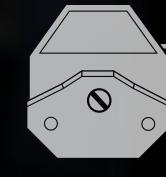
High-Performance

Easy-Load®

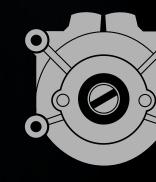




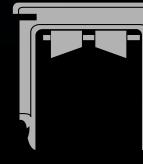
Easy-Load[®] II



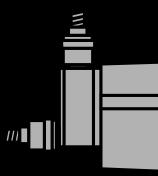
Standard



Multichannel Cartridge



PTFE-Diaphragm

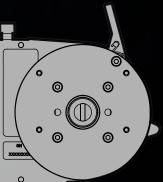


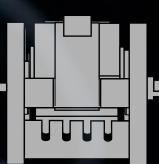


Easy-Load® 3

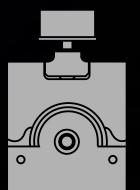


Cytoflow®





PTFE-Tubing











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Puri-Flex[™]

- Heat sealable, weldable, and a great alternative to leading TPE's
- Longer pump life and lower spallation when compared to silicone or many other TPE tubings
- USP Class VI, FDA, 3A, REACH, RoHS, ADCF

Platinum-Cured Silicone

- Low protein binding, fungus resistant, phthalate and latex-free
- Accommodates a wide temperature range
- USP Class V, EP, FDA, REACH, RoHS, ADCF

Tygon[®] E-Food (B-44-4X)

- Smooth inner surface unaffected by commercial sanitizers
- Nontoxic; will not affect taste or odor
- FDA, EU Food, NSF, 3A, REACH, RoHS, ADCF

Viton®

- Perfect for applications where FDA and chemical compatibility is needed
- Resists corrosives, solvents, and oils at elevated temperatures
- FDA, ADCF

Masterflex size	Puri-Flex™ 25 ft (7.6 m)	Platinum-cured silicone 25 ft (7.6 m)	Tygon [®] E-Food (B-44-4X) 50 ft (16.2 m)					
	Item number	Item number	Item number					
Precision pump tubing								
L/S 13	MK-96419-13	MK-96410-13	MK-06418-13					
L/S 14	MK-96419-14	MK-96410-14	MK-06418-14					
L/S 16	MK-96419-16	MK-96410-16	MK-06418-16					
L/S 25	MK-96419-25	MK-96410-25	MK-06418-25					
L/S 17	MK-96419-17	MK-96410-17	MK-06418-17					
L/S 18	MK-96419-18	MK-96410-18	MK-06418-18					
High-Performance P	recision pump tubing							
L/S 15	MK-96419-15	MK-96410-15	MK-06418-15					
L/S 24	MK-96419-24	MK-96410-24	MK-06418-24					
L/S 35	MK-96419-35	MK-96410-35	MK-06418-35					
L/S 36	MK-96419-36	MK-96410-36	MK-06418-36					

Viton® 25 ft (7.6 m)	
Item number	
MK-96412-13	
MK-96412-14	
MK-96412-16	
MK-96412-25	
MK-96412-17	
MK-96412-18	
MK-96412-15	
MK-96412-24	
MK-96412-35	
MK-96412-36	

Versatility—Tubing for Every Application

Optimize your demanding peristaltic pump applications when you use Masterflex pump tubing—specifically designed and manufactured for Masterflex peristaltic pumps. Select Precision tubing or the thicker-walled High-Performance Precision tubing which improves pressure generation, suction lift, ability to pump viscous fluids, and tubing life. See all 20+ tubing formulations at Masterflex.com/tubing.

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Technical Specs & Ordering Information

System with Easy-Load II Pump Head

> System with Easy-Load Pump Head

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

rpm

0.1 to 600

0.02 to 100

Specifications

Speed control a Display External control **External control** Motor **Open-head sens**

Housing materia Enclosure rating Agency approva Warranty **Dimensions (L x** Shipping weight

Power

MasterSense Drive Ordering Information

rpm		Dumno boodo occontod	With EtherNet/IP and MasterflexLive	With Profibus and MasterflexLiv	
	Flow range	Pumps heads accepted	Item number	Item number	
0.1 to 600	0.006 to 3400 mL/min	2	MK-07526-10	MK-07526-12	
0.02 to 100	0.001 to 580 mL/min	4	MK-07526-20	MK-07526-22	

Complete Systems

Flow range

0.08 to 480 mL/min

0.28 to 1700 mL/min

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
	0.006 to 36	0.021 to 130	0.08 to 480	0.17 to 1000	0.28 to 1700	0.38 to 2300	0.17 to 1000 (0.18 to 1100)	0.28 to 1700 (0.30 to 1800)	0.38 to 2300 (0.43 to 2600)	0.48 to (0.58 to
	0.001 to 6	0.004 to 21	0.016 to 80	0.033 to 170	0.057 to 280	0.077 to 380	0.033 to 170 (0.036 to 180)	0.057 to 280 (0.060 to 300)	0.077 to 380 (0.086 to 430)	0.096 t (0.113 t

accuracy (resolution)	±0.1% (0.1 rpm at 600 rpm; 0.01 rpm at 100 rpm)				
	5" capacitive TFT/RGB touch screen with in-plane switching (wide viewing angle); 800 x 480 pixels				
rol - input	0 to 20 mA, 20 to 0 mA, 4 to 20 mA, 20 to 4 mA; 0 to 10 V, 10 to 0 V, 0 to 5 V, 5 to 0 V; Start/stop, Direction (CW/CCW), Prime via contact closur				
ol - output 0 to 20 mA, 20 to 0 mA, 4 to 20 mA, 20 to 4 mA; 0 to 10 V, 10 to 0 V, 0 to 5 V, 5 to 0 V; Tach output (open collector), Motor runn Local/Remote, General alarm					
	BLDC with encoder; continuous duty; reversible; ½ hp (75 W)				
ensor	Yes; extension cable included				
rials	ABS plastic housing, painted aluminum chassis, painted aluminum bezel				
ng	IP33				
vals	UL, cUL, CE				
	2 years				
_ x W x H)	10¼" x 7½" x 8½" (26 x 19.4 x 21.6 cm)				
jht	11 lb (5 kg)				
	90 to 260 VAC, 50/60 Hz				

MK-07523-92 Foot switch, momentary start/stop; 6-ft (1.8-m) cable

MK-07523-94 DB25 male connector. Use to create your own cable

MK-07523-95 Cable assembly for remote control; DB25 male connector and 25-ft (7.9-m) cable with stripped wire ends

MK-07523-97 Handheld remote controller; route tubing through handle for dispensing into containers

MK-17050-01 NIST-traceable calibration with data for peristaltic pump drive

		What's included		
	Pump head	Tubing	Drive	Item nui
L/S Easy-Load pump head 07514-30 with open-head sensor	Puri-Flex™ pump tubing 96419-16, L/S 16, 10 ft (3 m)	L/S MasterSense drive 07526-10, 0.1 to 600 rpm, with EtherNet/IP and MasterflexLive	MK-7792	
		L/S MasterSense drive 07526-12, 0.1 to 600 rpm, with Profibus and MasterflexLive	MK-7792	
L/S Easy-Load II pump head 77200-32 with open-head sensor		L/S MasterSense drive 07526-10, 0.1 to 600 rpm, with EtherNet/IP and MasterflexLive	MK-7792	
		L/S MasterSense drive 07526-12, 0.1 to 600 rpm, with Profibus and MasterflexLive	MK-7792	









Masterflex is a leading, global fluidics manufacturer of proprietary products—with certifications to help you stay compliant—for your complete fluidic path. Along with our wide range of products, from pumps and tubing to flowmeters and single-use components, we are your consultant and partner to help you optimize your full fluidics workflow from research to process. And, when one of our standard offerings won't fit your application, we can help you succeed with a custom-engineered OEM pump solution to meet your exact needs and budget.

Masterflex products are known for their accuracy, durability, and ease-of-use. They can be seen in facilities around the world particularly in the pharmaceutical, biopharmaceutical, food & beverage, and chemicals industries. Masterflex products can also be used in any bioprocess and R&D industries where fluidics is required.



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