

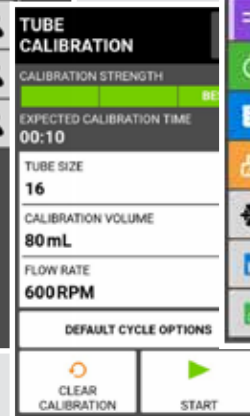
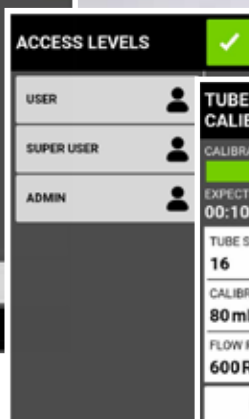
# MASTERFLEX®

# L/S®

## Masterflex® L/S® MasterSense™ Drives

Reimagine fluid handling—  
operate, collaborate and  
connect with ease

- Intuitive touch-screen interface—quick and easy to program, even with gloves on
- 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
- Over-the-air firmware updates—allows you to take full advantage of future enhancements
- Secure three-tier access to pump functionality
- Graphical indicator lets you know when loaded tubing is optimally calibrated
- Get your preferred way to work with multiple ways to operate the drive—via touch screen, analog remote, or choose a connectivity option
- Choice of connectivity options—MasterflexLive®, EtherNet/IP™, or Profibus
- Broad flow range, from 0.001 to 3400 mL/min, for use on the process floor and in the lab
- Versatile—compatible with all L/S pump head styles and pump tubing



1-800-637-3739

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System with Easy-Load Pump Head



System with Easy-Load II Pump Head



**Flow rates in mL/min** (flow rates in parentheses can be obtained only with the L/S 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
0.1 to 600	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 2900 (0.58 to 3400)
0.02 to 100	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 to 480 (0.113 to 580)

**Specifications**

Speed control accuracy (resolution)	±0.1% (0.1 rpm at 600 rpm; 0.01 rpm at 100 rpm)
Display	5" capacitive TFT/RGB touch screen with in-plane switching (wide viewing angle); 800 x 480 pixels
External control - 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 closure
External control - 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 running, Open head, Local/Remote, General alarm
Motor	BLDC with encoder; continuous duty; reversible; 1/10 hp (75 W)
Open-head sensor	Yes; extension cable included
Housing materials	ABS plastic housing, painted aluminum chassis, painted aluminum bezel
Enclosure rating	IP33
Agency approvals	UL, cUL, CE
Warranty	2 years
Dimensions (L x W x H)	10 1/4" x 7 7/8" x 8 1/2" (26 x 19.4 x 21.6 cm)
Shipping weight	11 lb (5 kg)
Power	90 to 260 VAC, 50/60 Hz

**MasterSense Drive Ordering Information**

rpm	Flow range	Pumps heads accepted	With MasterflexLive	With EtherNet/IP	With Profibus
			Item number	Item number	Item number
0.1 to 600	0.006 to 3400 mL/min	2	<b>MK-07526-16</b>	<b>MK-07526-10</b>	<b>MK-07526-12</b>
0.02 to 100	0.001 to 580 mL/min	4	<b>MK-07526-26</b>	<b>MK-07526-20</b>	<b>MK-07526-22</b>

**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

**Complete Systems**

Flow range	What's included			Item number
	Pump head	Tubing	Drive	
0.08 to 480 mL/min	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 07526-16, 0.1 to 600 rpm, with MasterflexLive	<b>MK-77920-60</b>
			L/S MasterSense drive 07526-10, 0.1 to 600 rpm, with EtherNet/IP	<b>MK-77920-40</b>
			L/S MasterSense drive 07526-12, 0.1 to 600 rpm, with Profibus	<b>MK-77920-50</b>
0.28 to 1700 mL/min	L/S Easy-Load II pump head 77200-32 with open-head sensor	Puri-Flex pump tubing 96419-24, L/S 24, 10 ft (3 m)	L/S MasterSense drive 07526-16, 0.1 to 600 rpm, with MasterflexLive	<b>MK-77920-62</b>
			L/S MasterSense drive 07526-10, 0.1 to 600 rpm, with EtherNet/IP	<b>MK-77920-42</b>
			L/S MasterSense drive 07526-12, 0.1 to 600 rpm, with Profibus	<b>MK-77920-52</b>

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