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MASTERFLEX[®]

MASTERFLEX[®] L/S[®] SERIES DISPENSING PUMP DRIVES



Quick Start **Guide**

SAFETY PRECAUTIONS

-  **DANGER:** Remove power from the pump before any cleaning operation is started.
-  **WARNINGS:** Remove power from the pump before attempting any maintenance. The Power switch on the Back Panel is not the main disconnect. A contactor or other device that routinely disconnects and reapplies the AC line to the drive to start and stop the motor can cause drive hardware damage. The drive is designed to use control input signals that will start and stop the motor.
-  **WARNINGS:** Tubing breakage may result in fluid being sprayed from pump. Use appropriate measures to protect operator and equipment. Turn Pump System off before removing or installing tubing. Fingers or loose clothing could be caught in drive mechanism.
-  **CAUTIONS:** Replace the fuse only with one of the same type and rating. The fuse rating and type are stated on the rear panel.
- Power must be turned off before connecting the external remote control cable to prevent damage to the drive.
-  **CAUTIONS:** To avoid electrical shock, the power cord protective grounding conductor must be connected to ground. Not for operation in wet locations as defined by EN61010-1.
- If the product is not used in a manner specified in the instructions, the protection provided by the equipment may be impaired.

Explanation of Symbols

-  **CAUTION:** Risk of Danger. Consult Operator's manual for nature of hazard and corrective actions.
-  **CAUTION:** Risk of crushing. Keep fingers away from rotor while pump is in operation. Stop pump before loading or unloading tubing.
-  **CAUTION:** Risk of electric shock. Consult Operator's manual for nature of hazard and corrective actions.

WARNING: Product Use Limitation

-  This product is not designed for, nor intended for use in patient connected applications; including, but not limited to, medical and dental use, and accordingly has not been submitted for FDA approval.
- This product is not designed for, nor intended for use in hazardous duty areas as defined by ATEX or the NEC (National Electrical Code); including, but not limited to use with flammable liquids. Consult the factory for products suitable for these types of applications.



EN61010-1 L.V. DIR.
EN61326-1 EMC DIR.
EN60529 / IEC 60034-5



2 year
warranty



07522-20, 07551-20 0.1-600 rpm
07522-30, 07551-30 0.02-100 rpm



+0C, +32F

+40C, +104F



70 dba @ 1M



07522-20, -30
07551-20, -30



07522-20, -30
07551-20, -30
13 lbs. (5.9 kg)



-25C, -13F

+65C, +149F

Replacement Cord/Plug Sets Ordering Information

Catalog Number	Description	Catalog Number	Description	Catalog Number	Description
50001-60	Australia	50001-69	Israel	50001-76	Italy
50001-62	Denmark	50001-70	Europe	50001-78	U.S. 230V
50001-64	India	50001-72	England	—	—
50001-68	U.S. STD. 115V	50001-74	Switzerland	—	—

Product Accessories

For 07522- and 07551-series drives

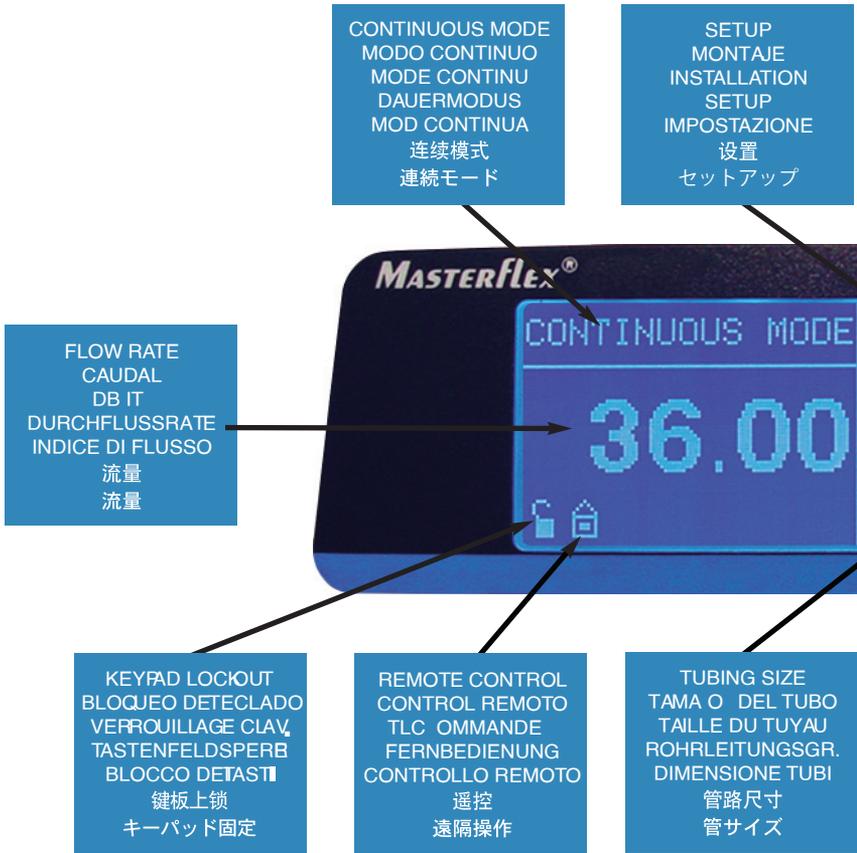
- 07523-92** Footswitch w/DB-25 male connector
- 07523-94** DB-25 male connector for remote control (connector only)
- 07523-95** Cable assembly, DB-25 male connector and 25-ft (7.9m) cable w/stripped wire ends
- 07523-97** Dispensing wand DB-25 male connector

For 07551-series drives only

- 22050-54** Interface Cable DB9M/DB9F
- 22050-60** Cable USB Type A/Type B M/M



Graphic Interface



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LANGUAGE
 IDIOMA
 LANGUE
 SPRACHE
 LINGUA
 语言
 言語

6



MAIN MENU
 MEN PRINCIPAL
 MENU PRINCIPAL
 HAUPTMEN
 MENU PRINCIPALE
 主菜单
 メインメニュー

Keypad Legend

PUMP DIRECTION
DIRECCI N BOMBA
DIRECTION POMPE
PUMPRICHTUNG
DIREZIONE POMPA
泵流方向
ポンプ方向

ANTI-DRIP
SIN GOTE O
ANTI-GOUTTES
KEIN TROEN
ANTISGOCCIOLO
防漏

START/STOP
INICIO/DETENCI N
DM ARRER/ARR TTER
START/STOPP
AVVIO/ARRESTO
启动/停止
始動/停止

ENTER
ENTRE
ENTRER
EINGABE
INSERIRE
输入
入力



FLOW UNITS
UNIDADES DE FLUJO
UNITS DE DB IT
DURCHFUSSEINHEIT
UNIT DI FLUSSO
流量单位
フロー単位

PRIME
CEBAR
AMOR ER
ANSAUGEN
ADESCARE
灌泵
呼び水

7



CONTINUOUS MODE
MODO CONTINUO
MODE CONTINU
DAUERMODUS
MOD CONTINUA
连续模式
連続モード

8



CONTINUOUS MODE
MODO CONTINUO
MODE CONTINU
DAUERMODUS
MOD CONTINUA
连续模式
連続モード



VOL DISP. MODE
VOLUMEN DISP.
DISTR. VOLUME
MENG. F RD .MOD.

定量輸注模式
MOD DIST VOLUME
定量給液モード



TIME DISP. MODE

DISTR. PROGRAM.
ZEITFR. D.MOD.
MOD DIST TEMPO

定时輸注模式
定時給液モード



DISTR. MODE



設置

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CONTINUOUS MODE
SETUP

FLOW UNITS
TUBING SIZE
FLOW RATE
TUBING CAL
PUMP DIRECTION

FLOW UNITS
UNIDADES DE FLUJO
UNITS DE DB IT
DURCHFLUSSEINHEIT
UNIT DI FLUSSO
流量単位
フロー単位

FLOW UNITS
mL/min
mL/hr
L/min
L/hr
L/day



CONTINUOUS MODE
SETUP

FLOW UNITS
TUBING SIZE
FLOW RATE
TUBING CAL
PUMP DIRECTION

TUBING SIZE
TAMAÑO DEL TUBO
TAILLE DU TUYAU
ROHRLEITUNGSGR.
DIMENSIONE TUBI
管路尺寸
管サイズ

TUBING SIZE
MAX.
SIZE FLOW RATE
mL/min

23	4000
73	8000
82	13000

10



CONTINUOUS MODE
SETUP

FLOW UNITS
TUBING SIZE
FLOW RATE
TUBING CAL
PUMP DIRECTION

FLOW RATE
CAUDAL
DB IT
DURCHFLUSSRATE
INDICE DI FLUSSO
流量
流量

FLOW RATE mL/min
36.00
EXIT



CONTINUOUS MODE
SETUP

FLOW UNITS
TUBING SIZE
FLOW RATE
TUBING CAL
PUMP DIRECTION

TUBING CAL
CAL DE TUBERÍA
TALON. TUYAU
ROHRLEITUNGSKAL
TARATURA TUBI
管路校准
配管校正

TUBING CAL	START
6.000 mL	ON
36.00	mL/min
EXIT CLEAR	13



ANTI-DRIP
ON
OFF
EXIT

ANTI-DRIP
SIN GOTEO
ANTI-GOUTTES
KEIN TROEN
ANTISGOCCIOLO
液ダレなし
防漏

ANTI-DRIP
45 °
EXIT

Pin No. DB-25	Description
1	Speed Control Voltage Input (0-10 V)
2	Speed Control Current Input (0-20 mA)
3	Speed Control Input Ground Return
4	Speed Signal Current Output (0-20 mA)
5	Speed Signal Output Ground Reference
6	(Motor Running N.O. Default) 1A @24V (Open Collector)
7	Motor Running Ground Return
8	(Motor Running N.C. Default) 1A @24V (Open Collector)
14	Speed Signal Voltage Output (0-10 V)
15	Remote Start/Stop Input
16	Remote CW/CCW Input
17	Remote Start/Stop, CW/CCW, Prime Grnd Ref.
18	Tach Ground Reference
19	Tach Output (Open Collector)
20	Remote Prime Input
23	General Alarm Output
24	Local/Remote Indicator
9-12	Reserved - Not Used
21-22	Reserved - Not Used
25	Aux 24V+
13	Aux 24V-

L/S Digital Dispensing Pump Drives and Systems

DESCRIPTION	CAT. NO.
To designate a bundled system with Drive and Pump Head:	
L/S Eight-Channel/Four Roller Cartridge Pump System	77919-25
L/S Four-Channel/Eight-Roller Cartridge Pump System	77919-35
L/S Digital Pump System with Easy-Load® 3 Pump Head	77921-65
L/S Digital Pump System with Easy-Load® II Pump Head	77921-75
L/S Four-Channel Digital Dispensing Pump System	77921-85
L/S Computer Compatible Pump System with EASY-LOAD® 3 Pump Head	77924-55
L/S Computer Compatible Pump System with EASY-LOAD® II Pump Head	77924-65



