Digital Gear Pump Drive and Systems	
DESCRIPTION	**CAT. NO.**
Digital Drive, 36-3600 rpm	75211-70
Digital Gear Pump System, 0.092 mL/rev, 331.2 mL/min max	74014-02
Digital Gear Pump System, 0.316 mL/rev, 1137.6 mL/min max	74014-12
Digital Gear Pump System, 0.64 mL/rev, 2304 mL/min max	74014-22
Digital Gear Pump System, 0.91 mL/rev, 3276 mL/min max	74014-32
Digital Gear Pump System,1.17 mL/rev, 4212 mL/min max	74014-42
Digital Gear Pump System, 0.261 mL/rev, 939.6 mL/min max	74014-52
Digital Gear Pump System, 0.092 mL/rev, 331.2 mL/min max	74014-62
Digital Gear Pump System, 0.017 mL/rev, 61.2 mL/min max	74014-72

Gear Pump Heads—316SS Body and PTFE Seals			
GEAR SET	**mL/rev**	**Max. mL/min**	**CAT. NO.**
N21	0.316	1140	07002-17
N23	0.64	2300	07002-23
N25	0.91	3280	73011-16
V21	0.042	150	07002-26
V23	0.084	300	07002-27
X21	0.017	60	07002-25
Gear Pump Heads—316SS Body and PTFE or Viton Seals			
GEAR SET	**mL/rev**	**Max. mL/min**	**CAT. NO.**
P23	0.26	940	73004-00
P25	0.58	2090	07003-02
P35	1.17	4210	07003-04
T23	0.092	330	07002-14

MASTERFLEX®

US & Canada only
Toll Free 1-800-MASTERFLEX | 1-800-637-3739

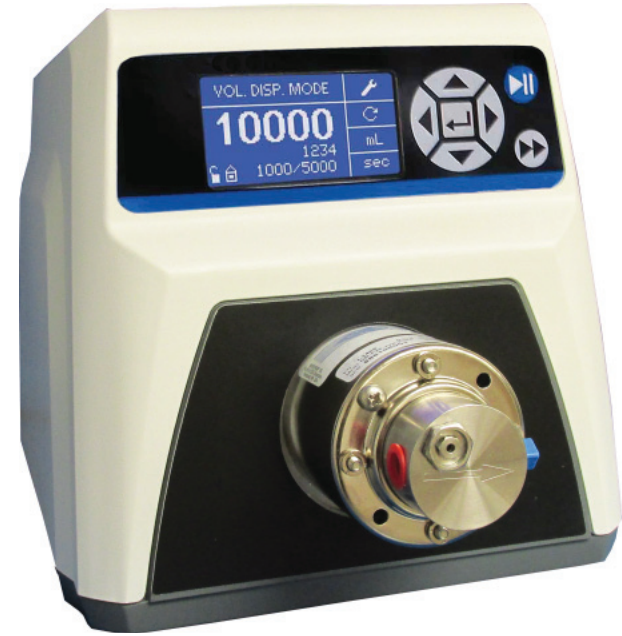
Outside US & Canada
1-847-381-7050

***EN809 manufactured by:**
Masterflex LLC
28W092 Commercial Avenue, Barrington, IL 60010
techinfo@masterflex.com | **www.masterflex.com**

A-1299-1145B Edition 05

MASTERFLEX®

MASTERFLEX® L/S® SERIES
DIGITAL MODULAR DISPENSING 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.

Turn Pump System off before removing or installing Gear Pump. Fingers or loose clothing could get caught in drive mechanism.

CAUTIONS: Replace the fuse only with one of the same type and rating. The fuse type and rating 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 magnetic coupling while pump is in operation. Stop pump before mounting Gear Pump.

CAUTION: Risk of electric shock. Consult Operator's manual for nature of hazard and corrective actions.

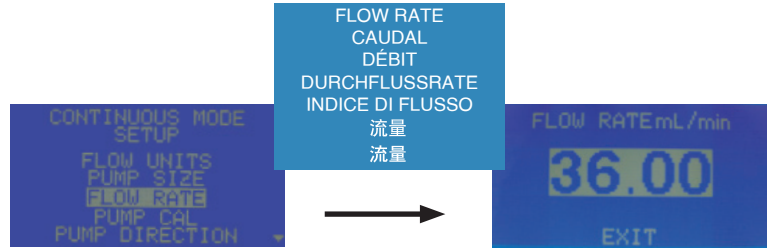
WARNING: Product Use Limitation

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.

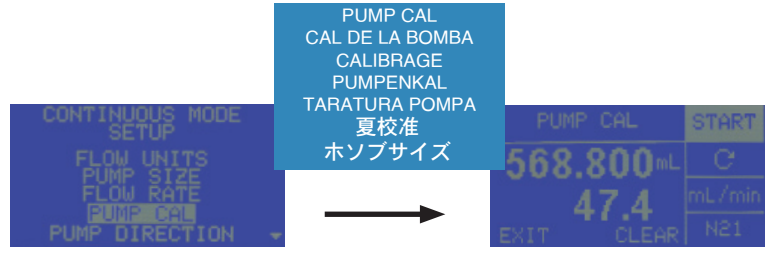
This product is not designed for, nor intended for use in hazardous duty areas as defined by ATEX or the NEC (National Electrical Code); including but not limited to use with flammable liquids.

10









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	—	—

EN61010-1:2001 L.V. DIR.
EN61326-1:2006 EMC DIR.
EN60529 / IEC 60034-5

Intertek

2 year warranty

RoHS

UK CA

75211-70 36 to 3600 rpm

+0C, +32F

+40C, +104F

70 dba @ 1M

75211-70

75211-70
15.5 lbs (7 kg)

-25C, -13F

+65C, +149F

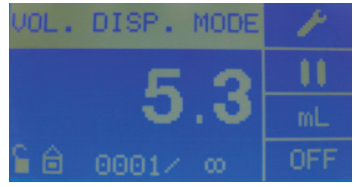


Pin No. DB-25

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-

8





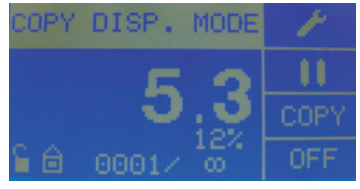
VOL DISP. MODE
VOLUMEN DISP.
DISTR. VOLUME
MENG.FÖRD.MOD.
MOD DIST VOLUME
定量輸注模式
分量給液モード





TIME DISP. MODE
TEMPORIZAR DISP.
DISTR. PROGRAM.
ZEITFÖRD.MOD.
MOD DIST TEMPO
定时输注模式
定時給液モード

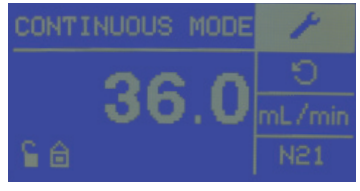




COPY DISP. MODE
DUPLICAR DISP.
DISTR. REPETEE
WH.FÖRD.MOD.
MOD DIST COPIA
拷贝输注模式
コピー給液モード

9





SETUP
MONTAJE
INSTALLATION
SETUP
IMPOSTAZIONE
设置
セットアップ

10





FLOW UNITS
UNIDADES DE FLUJO
UNITÉS DE DÉBIT
DURCHFLUSSEINHEIT
UNITÀ DI FLUSSO
流量単位
フロー単位





PUMP SIZE
TAMA—O DE LA BOMBA
TAILLE DE LA POMPE
PUMPENGRÖSSE
DIMENS. POMPA
尺寸
ポンプサイズ

Product Accessories

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

1



2



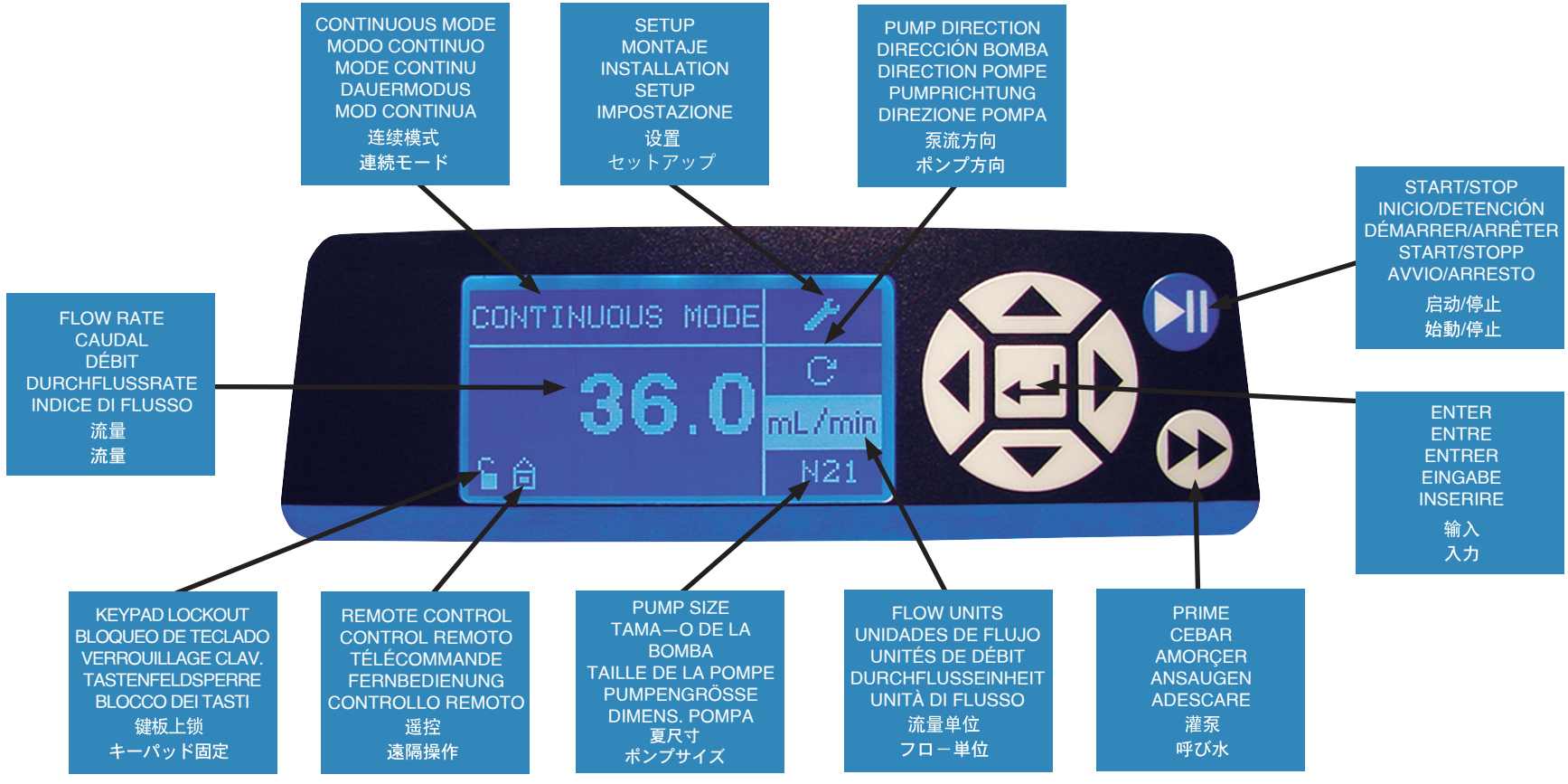
3



4



Graphic Interface Keypad Legend

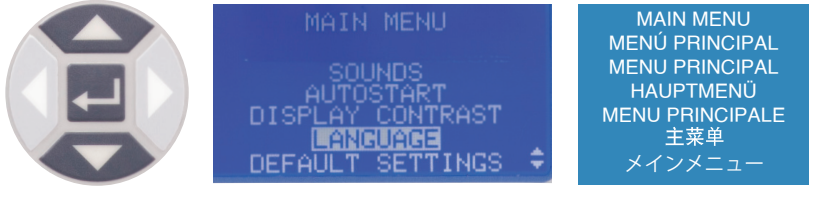


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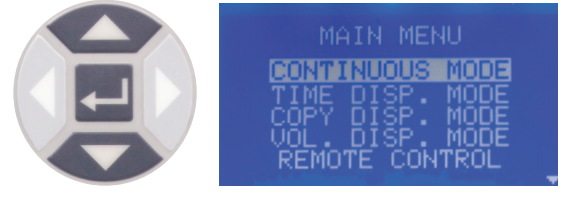
LANGUAGE
IDIOMA
LANGUE
SPRACHE
LINGUA
语言
言語

6



MAIN MENU
MENÚ PRINCIPAL
MENU PRINCIPAL
HAUPTMENÜ
MENU PRINCIPALE
主菜单
メインメニュー

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