

MASTERFLEX[®]

Ismatec[®] High-Accuracy Multichannel Peristaltic Pump

WITH ADVANCED CONNECTIVITY

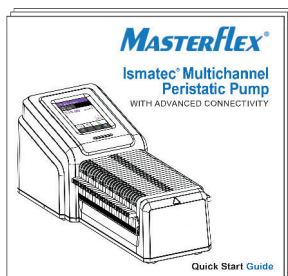
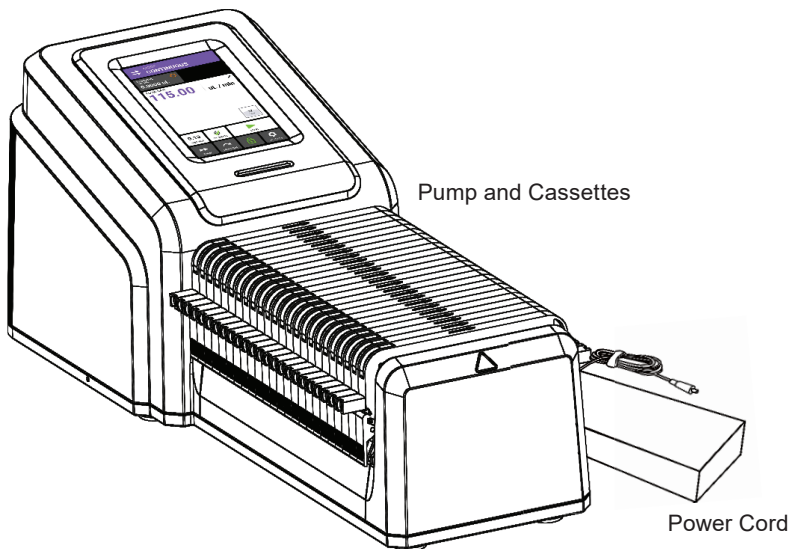


Quick Start **Guide**

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Ersatzkabel/-stecker
Ensemble de remplacement de cordon/prise
Cable de repuesto / conjunto de enchufes
Cavo sostitutivo/Kit prese
替换电源线/插头组
交換コード/プラグセット

What's in the Box



Quick Start Guide

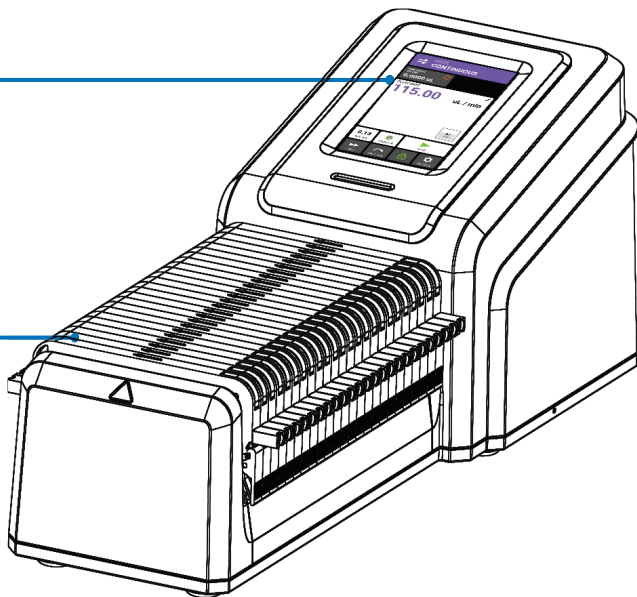
(Download .pdf user manual at <https://us.vwr.com/cms/masterflex-literature>)

Product Description

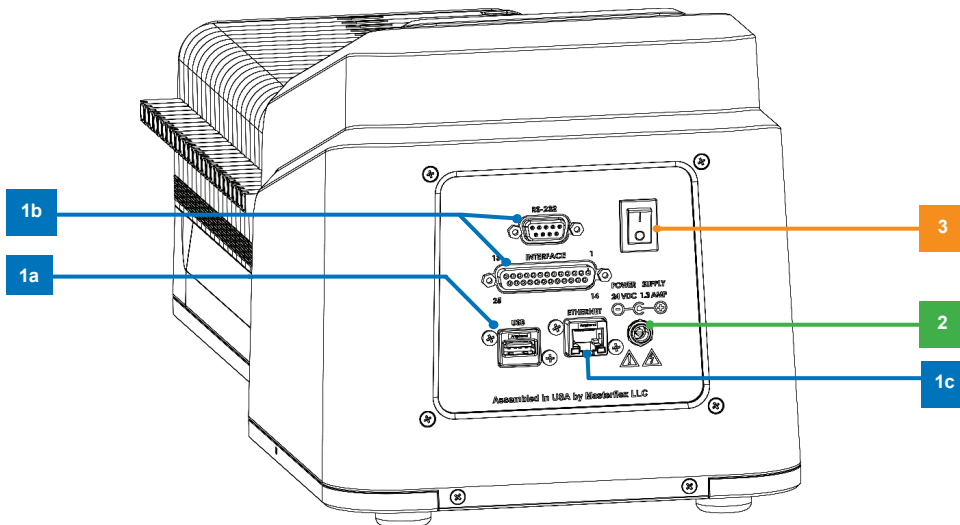
FRONT

Touchscreen
Touchscreen
Écran tactile
Pantalla táctil
Touch-screen
触摸屏
タッチスクリーン

Cassettes
Kassette
Cassette
Cassette
Cassetta
取出管架・
カセットを取り外します・

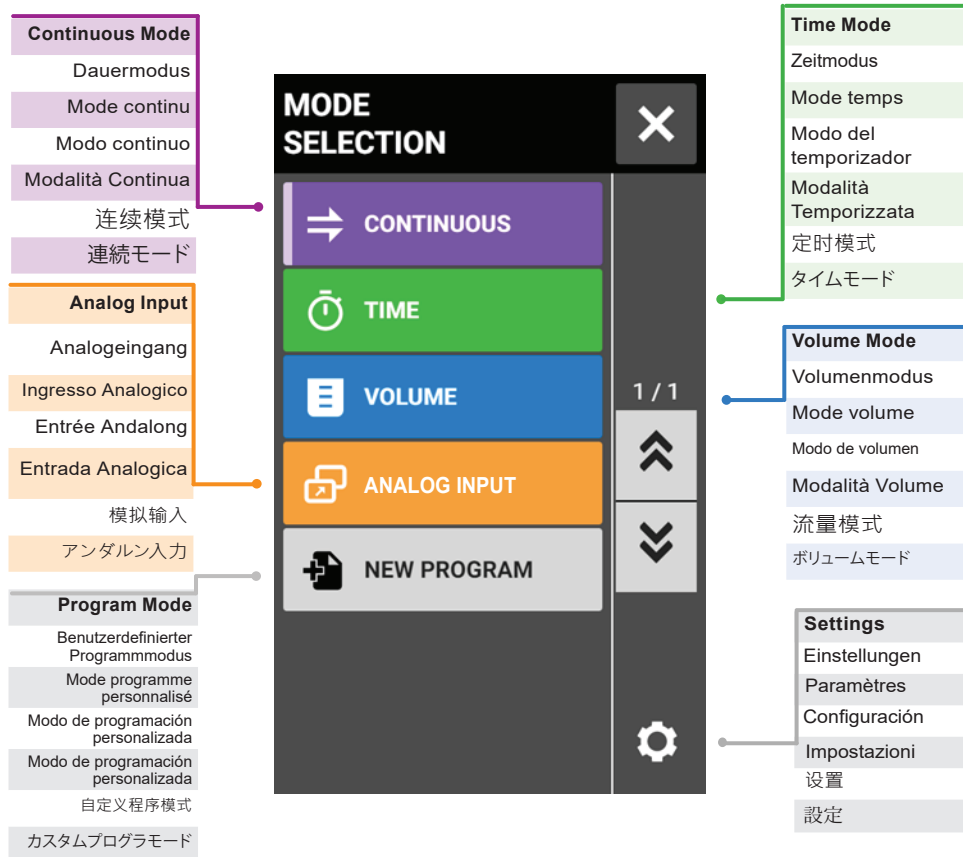


BACK



1a	1b	1c	2	3
Plug in USB	Plug in DB-25, DB-9	Plug in Ethernet	Plug in Power Cable	Switch On Power
USB verbinden	DB-25, DB-9 verbinden	Ethernet verbinden	Stromkabel anschließen	Stromversorgung einschalten
Brancher l'USB	Brancher l'DB-25, D-B9	Brancher l'éthernet	Brancher le cable d'alimentation	Allumer
Enchufe tipo USB	Enchufe tipo DB-25, DB-9	Conexión Ethernet	Conexión del cable eléctrico	Botón de encendido
Inserire USB	Inserire DB-25, DB-9	Collegare Ethernet	Collegare il cavo di alimentazione	Accendere l'alimentazione
插入USB线	插入DB-25, DB-9线	插入网线	插入电源线	启动电源
USBを差し込む	DB-25, DB-9を差し込む	イーサネットを接続する	電源ケーブルを差し込みます	電源を入れる

Mode Selection



Continuous Mode

Cumulative Volume

Gesamtvolumen

Volume cumulatif

Volume cumulativo

Volumen acumulado

累計流量

累計量

Flow Rate

Durchflussrate

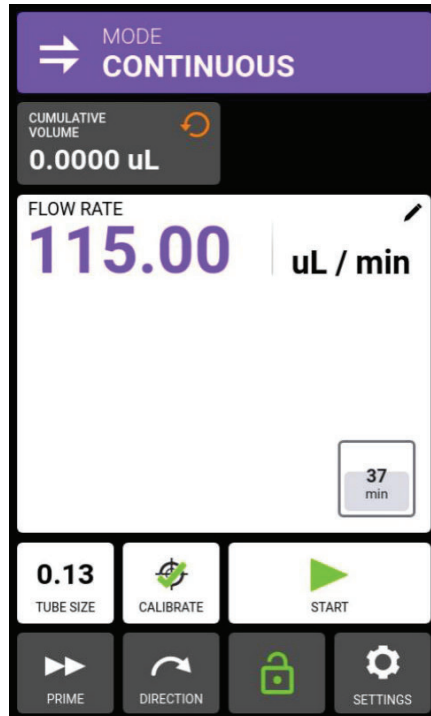
Velocità di flusso

Débit

Índice de flujo

流速

流量



Start/Stop

Start/Stoppen

Avvio/Stop

Départ/Arrêt

Iniciar/Detener

启动

始める

Settings

Einstellungen

Impostazioni

Réglages

Ajustes

设置

設定

Time Mode

Cumulative Volume

Kumulatives Volumen

Volume cumulatif

Volumen acumulado

Volume cumulativo

累计流量

累積量

Set Pump On Time

Pumpeneinschaltungszeit

Régler le temps de mis en marche

Establecer hora de encendido de la bomba

Impostazione orario accensione pompa

设置泵的运行时间

ポンプオン時間を設定

Set Pump Off Time

Pumpenausstellungszeit

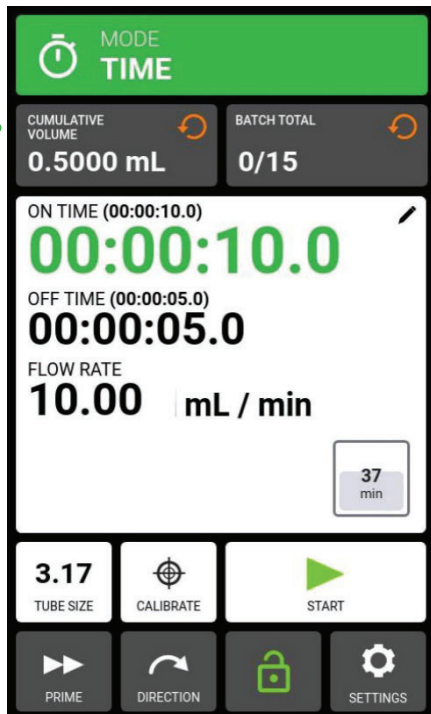
Régler le temp d'arrêt

Establecer hora de apagado de la bomba

Impostazione orario spegnimento pompa

设置泵停止时间

ポンプオフ時間を設定



Batch Total

Chargensumme

Total batch

Totale lotti

Número de lotes

批次总数

バッチ合計 バッチ合計J

Flow Rate

Durchflussrate

Débit

Tasa de flujo

Velocità del flusso

流速

流量

Volume Mode

- Dispense Volume**
 - Ausgabevolumen
 - Volume à dispenser
 - Volumen dispensado
 - Volume di erogazione
 - 设定流量
 - 分注量

- Interval Time**
 - Zeitintervall
 - Intervalle de temps
 - Intervalo de tiempo
 - Intervallo di tempo
 - 间隔时间
 - インターバル時間

- Flow Rate**
 - Durchflussrate
 - Débit
 - Tasa de flujo
 - Velocità del flusso
 - 流速
 - 流量

- Start/Stop**
 - Start/Stoppen
 - Démarrage/arrêt
 - Arrancar/apagar
 - Avvio/Stop
 - 启动/停止
 - 開始/停止

- Settings**
 - Einstellungen
 - Paramètres
 - Configuración
 - Impostazioni
 - 设置
 - 設定

Analog Input

The screenshot displays the control interface for the Masterflex Ismatec High-Accuracy Multichannel Peristaltic Pump. The interface is organized into several sections:

- Top Bar:** Shows the input type as "INPUT: CURRENT" and the range "4mA - 20mA".
- Cumulative Volume:** Displays "0.0000 mL".
- Flow Rate:** Displays "0.0000 mL / min".
- Tube Size:** Displays "0.13".
- Control Buttons:** Includes buttons for "CALIBRATE", "START", "PRIME", "DIRECTION", and "SETTINGS".
- Timer:** A "TIMER DISABLED" button is visible.

Annotations on the left side of the interface:

- Cumulative Volume:** Gesamtvolumen, Volume cumulatif, Volume cumulativo, Volumen acumulado, 累计流量, 累計量
- Tube Size:** Rohrgröße, Dimensione del tubo, Taille du tube, Tamaño del tubo, 管徑, チューブサイズ

Annotations on the right side of the interface:

- Flow Rate:** Durchflussrate, Débit, Tasa de flujo, Velocità del flusso, 流速, 流量
- Start/Stop:** Start/Stoppen, Démarrage/arrêt, Arrancar/apagar, Avvio/Stop, 启动/停止, 開始/停止

SerialComms

Cumulative Volume

Gesamtvolumen

Volume cumulatif

Volume cumulativo

Volumen acumulado

累計流量

累計量

Tube Size

Rohrgröße

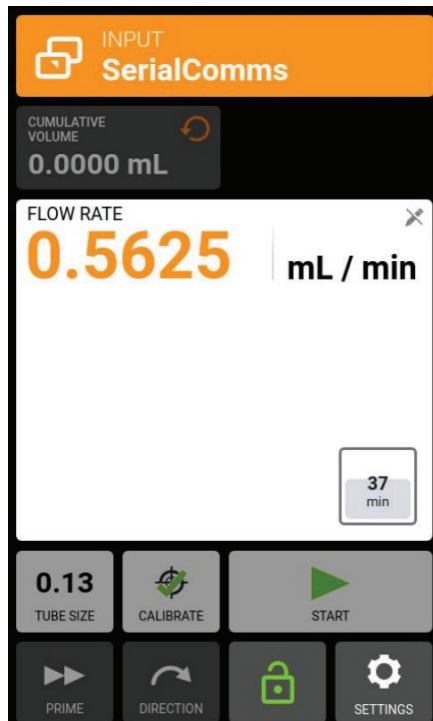
Dimensione del tubo

Taille du tube

Tamaño del tubo

管徑

チューブサイズ



Flow Rate

Durchflussrate

Débit

Tasa de flujo

Velocità del flusso

流速

流量

Start/Stop

Start/Stoppen

Démarrage/arrêt

Arrancar/apagar

Avvio/Stop

启动/停止

開始/停止

Tube Calibration

Approx. Duration
Ungefähre Dauer
Durée approximative
Duración aproximada
Durata approssimativa
校准時間
大概持续时间

Tube Size
Rohrgröße
Dimensione del tubo
Taille du tube
Tamaño del tubo
管徑
チューブサイズ

Set Flow Rate
Festgelegte Durchflussrate
Régler le débit d'écoulement
Establecer tasa de flujo
Impostazione velocità del flusso
設定流速
流量を設定

Calibration Strength
Kalibrierungsstärke
Forza di calibrazione
Force d'étalonnage
Fuerza de calibración
校准強度
校正強度

Calibration Volume
Kalibrierungsvolumen
Volume d'étalonnage
Volumen de calibración
Taratura volume
校准容量
ポリュームの校正

Start Calibration
Kalibrierung starten
Commencer l'étalonnage
Empezar calibración
Inizio taratura
开始校准
キャリブレーションの開始

TUBE CALIBRATION [Close]

CALIBRATION STRENGTH
BEST

EXPECTED CALIBRATION TIME
02:09

TUBE SIZE
1.02

CALIBRATION VOLUME
3.00 mL

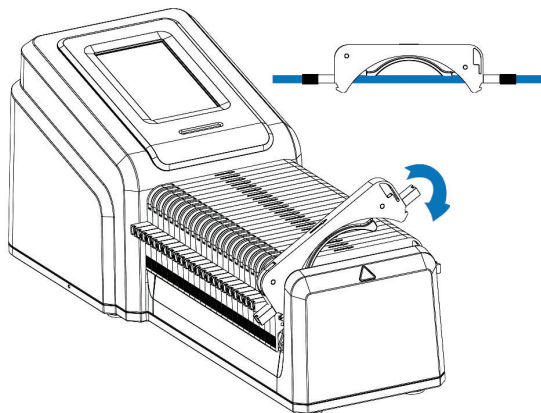
FLOW RATE
1.40 mL / min

RESET DEFAULT OPTIONS

CLEAR CALIBRATION [Reset]

START [Play]

Loading Tubes into Pump Head



Step 1

Load tubing into cassette

Laden Sie den Schlauch in die Kassette

Caricare i tubi nella cassetta

Charger le tube dans la cassette

Cargue el tubo en el casete

將管子裝入盒中

チューブをカセットにロードします

Step 2

Insert cassette at angle

Kassette schräg einlegen

Inserire la cassetta inclinata

Insérez la cassette en biais

Inserte el casete en ángulo

以一定角度插入管盒

カセットを斜めに挿入する

Step 3

Push down to click in place

Nach unten drücken, bis es einrastet

Spingere verso il basso per fare clic in posizione

Insérez la cassette en biais

Empuje hacia abajo para hacer clic en su lugar

压下至锁定到位

押し下げて所定の位置にカチッと固定します

Pump Settings

DB-25 ELECTRICAL CONNECTIONS



Pin	Description
1	Speed Control Voltage Input (0–10V)
2	Speed Control Current Input (0–20mA)
3	Speed Control Input Reference
4	Speed Signal Current Output (0–20mA)
5	Speed Signal Output Reference
6	Motor Running Relay Output (N.O.)
7	Motor Running Relay Output Common
8	Open Head Sensor Relay Output (N.O.)
9	Not Used
10	Open Head Sensor Relay Output Common
11–13	Not used

Pin	Description
14	Speed Signal Voltage Output (0–10V)
15	Start/Stop Input
16	CW/CCW Input
17	Start/Stop, CW/CCW, Prime Ref.
18	Tach Output Reference
19	Tach Output (Open Collector)
20	Prime Input
21	General Alarm Relay Output Common
22	Not Used
23	General Alarm Relay Output (N.O.)
24,25	Not used


Note: pins 5, 17 and 18 are ground potential.

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Replacement Cord/Plug Sets

ORDERING INFORMATION


Catalog No.	Description	Catalog No.	Description	Catalog No.	Description
50001-60	Australia	50001-69	Israel	50001-76	Italy
50001-62	Denmark	50001-70	Europe	50001-78	US 230V
50001-64	India	50001-72	England	50001-79	China
50001-68	US STD 115V	50001-74	Switzerland	—	—



EN61010-1 L.V.DIR.
ETSI EN 301 489-1 EMC DIR.
EN60529/IEC 60034-5




IP31



UL LISTED US

2 year warranty





IPC 45 RPM

MFLX78006-22
MFLX78006-24
MFLX78006-26
MFLX78006-28


IPC 11.25 RPM

MFLX78006-42
MFLX78006-44
MFLX78006-46
MFLX78006-48







+0°C +32°F




+40°C +104°F




≤70 dba @ 1m




≤17.20 lbs.
7.801 kg





-25°C -13°F



+65°C +149°F

For more information visit www.avantorsciences.com/masterflex

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Manufacturer by Masterflex LLC
28W092 Commercial Avenue, Barrington, IL 60010 USA

USA & Canada Only
Toll-Free 1-800.MASTERFLEX | 1-800.637.3739
Outside USA & Canada 1-847.381.7050

EML: masterflex.tech@avantorsciences.com
WEB: www.avantorsciences.com/masterflex

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