



Longer Precision Pump Co.,Ltd.

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Technical Specifications

Product model	GD200-1B	GD400-1B	GD650-1B	GD200-1C(High torque)
Speed range	0.01-200rpm	0.01-400rpm	0.01-650rpm	0.01-200rpm
Flow rate	0.15μL-1000mL/min	0.15μL-2000mL/min	0.15μL-3250mL/min	0.15μL-2000mL/min
Speed resolution	0.01rpm (<100rpm) ;0.1rpm (≥100rpm)			
Speed accuracy	±0.1%			
Calibration funtion	Flowrate calibration, volume calibration, auto-calibration with a flow meter (optional)			
Display	5-inch color LCD screen shows parameters and statuses, such as pump speed, flow rate, time, volume, etc.			
Work mode	1.Continuous mode: displays the pump speed or flow rate 2.Time mode: supports repeatable time based dispensing 3.Volume mode: supports repeatable volume based dispensing			
Control mode	Touchscreen+ keypad control; foot switch / handheld dispenser control; external signal control; communication control			
External control	Start/stop control, direction control: 5V-24V logic level signal or relay signal (dry contact) Speed control: 4-20mA, 0-5V, 0-10V, 0-10kHz, the signal range and speed range can be configured on the pump. Multiple sources can be enabled simultaneously.			
Communication control	RS485 interface, Modbus RTU protocol or Longer OEM protocol			
Status output	Pump speed: 10Hz/rpm, OC gate frequency signal; Running/stop: 24VDC/ 0.1A relay, open for stop Running direction: 24VDC/ 0.1A relay, close for clockwise; Other alarms: 24VDC/ 0.1A relay, close for alarms			
Parameter recipes	100 dispensing parameter recipes can be saved and recalled easily in the volume mode.			
Voice control	Control the pump start, stop/pause, direction, and full-speed operation via voice commands.			
Scheduled start	Automatic countdown and start at a preset time (up to 99h 59min 59s)			
User access control	Three-level user access management,configurable to enable or disable			
Log record	Logs can be recorded, reviewed and exported. Up to 4,000 log entries can be stored on the pump.			
Pump status when powered up	The pump defaults to a stopped status on power-up. In continuous mode, the pump can be configured to resume the status before power-off.			
Dimensions (LxWxH)	305mm×190mm×201mm			
Power supply	AC100-240V 50/60Hz			
Noise(@ 1 meter)	≤50dB(A)	≤55dB(A)		
IP rating	IP32			
Weight(drive only)	3.5kg			5.5kg

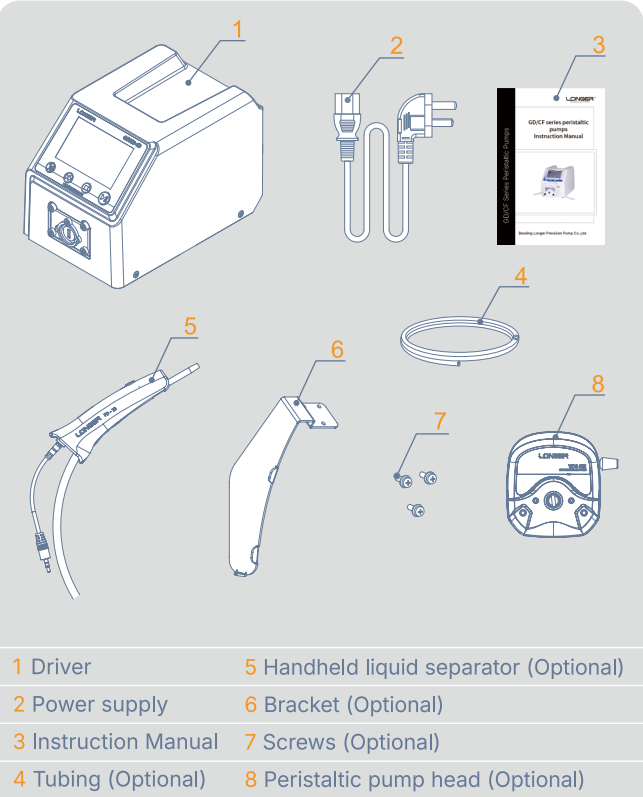


GD Series
Peristaltic Pumps
Quick Start Guide

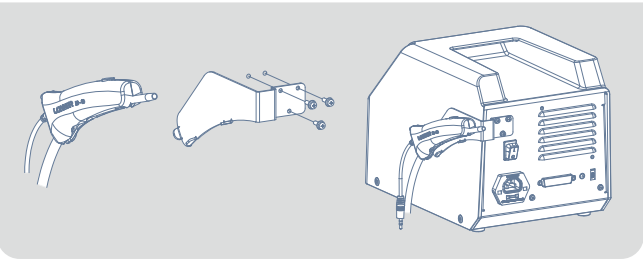


Packing Instructions

Open the packaging box. The top layer contains the instruction manual, power supply, and handheld liquid separator (optional). The driver is placed in the lower layer.

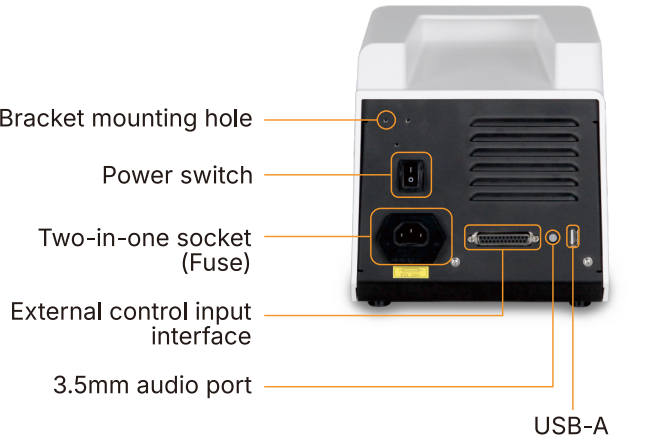
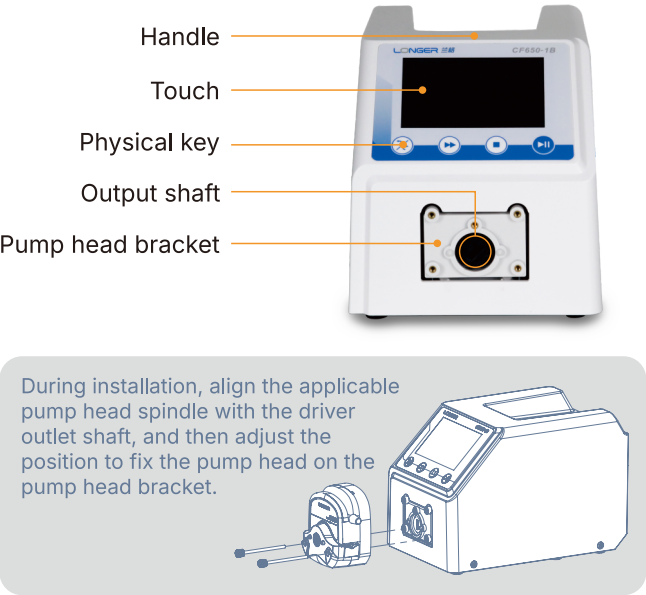


Handheld liquid separator and installation diagram



Product Introduction

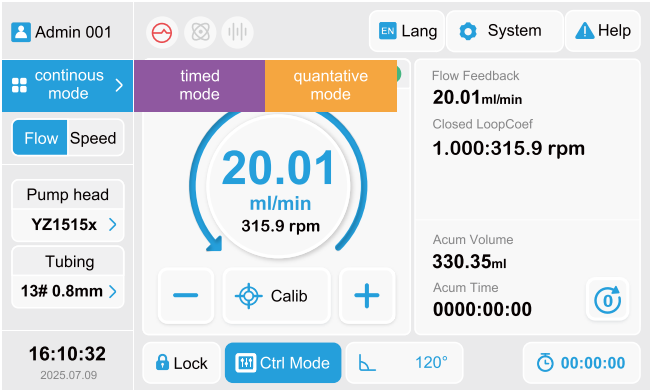
Longer GD peristaltic pump, featuring a 5-inch touchscreen + button operation, a more user-friendly UI design, and improved interactive functions; increased maximum speed thus improving flow range. Voice control allows hands-free operation to some extent. An optional closed-loop automatic flow meter calibration function is available for improved accuracy.



- Bracket installation hole: For mounting an optional handheld liquid separator bracket.
- Power switch: [0] is off, [1] is on.
- 2-in-1 socket: contains a fuse, one active, one spare.
- External control input interface: can be connected to a DB25 male connector signal cable.
- 3.5mm audio port: dual-channel, 3 sections, used for installing a foot switch or handheld dispenser with the same interface.
- USB-A: USB interface for program upgrades.

Operation Introduction

The main interface provides the following commonly used functions. For more details and other interfaces, click the Help button.



	Permission management, configured through system settings
	Mode selection, three modes with different skin colors
FlowSpeed	Can switch between continuous mode and timed mode
NamePlan 1	The quantitative mode allows for recipe selection
Pump headYZ1515x	Pump head configuration
Tubing13# 0.8mm	Tubing configuration

	Main parameter configuration: Quantitative mode—Volume, Speed mode—Rotational speed, Flow mode—Flow rate
	Current transmission direction prompt
	Flow can be calibrated in continuous, timed, or fixed-rate modes
-+	Main parameter fine-tuning, minimum resolution adjustment per iteration
	Scheduled start
	Click to reset the cumulative parameters to zero

Flow closed-loop selection scheme

