LONGER

Longer Precision Pump Co.,Ltd.

Add: 3rd/4th Floor, Building 6B, University Science Park
Baoding National, High -Tech Industrial Development Zone
Baoding, Hebei, China 071051

Tel: 86-312-3110087

Fax: 86-312-3168553

E-mail: longer@longerpump.com

Http: //www.longerpump.com

▶ Technical Specifications

Model	GS200-1B	GS400-1B	GS650-1B
Speed range	0-200rpm	0-400rpm	0-650rpm
Speed resolution	0.01rpm (@ 100rpm) and 0.1rpm (@ ≥100rpm)		
Working mode	Continuous mode and time mode		
Display	3.5-inch color LCD screen shows parameters and statuses, such as pump speed, time, etc.		
Key&screen Lock	The physical buttons and the touchscreen can be locked to prevent misoperation		
Power-on state	In internal control continuous mode, the system can be configured to stop or the state it was in before power off at next power-on. It can be set in system settings or communication.		
Parameter Storage	Power-off saving of the operating parameters and system parameters.		
Control mode	Touchscreen+ keypad control; foot switch / handheld dispenser control; external signal control; communication control. Multiple sources can be enabled simultaneously		
Communication control	RS485 interface, Modbus RTU protocol or Longer OEM protocol		
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.		
Status outputs	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		
Certification	LVD:IEC61010-2-201:2017 for use withIEC61010-1:2010,AMD1:2016 EMC: EN IEC 61326-1:2021, EN IEC 61000-6-2:2019, EN IEC 61000-6-4:2019 RoHS: 2011/65/EU(RoHS2.0)		
IP rating	IP31		
Power supply	AC 100-240V 50/60Hz 25W	AC 100-240V 50/60Hz 45W	AC 100-240V 50/60Hz 65W
Operating condition	Environment temperature:0°C-40°C, relative humidity:<80%		
Noise(@ 1 meter)	≤55dB	≤55dB	≤60dB
Dimension (mm)	225x145x165 (LxWxH)		
Weight(g)	2650	2850	

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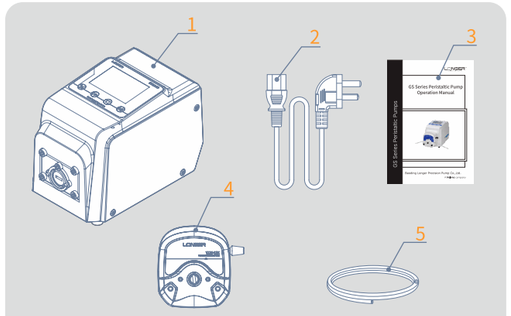
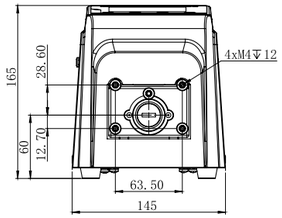
GS Series Peristaltic Pumps Quick Start Guide

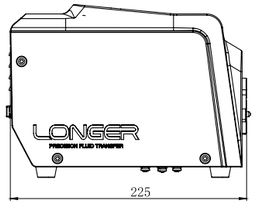
Packing Instruction

Unpack the package, on the top layer, there are user manual, power supply, and accessories, on the bottom layer, it is the peristaltic pump.



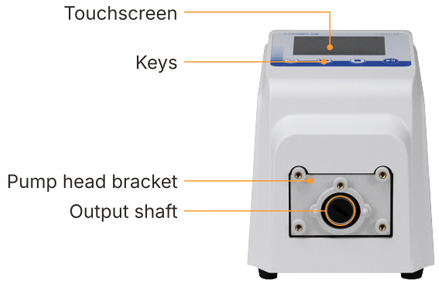
1 Driver	4 Peristaltic pump head (Optional)
2 Power supply	5 Tubing (Optional)
3 Instruction Manual	



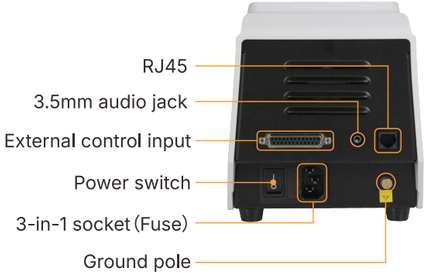


Production Introduction

Featured 3.5-inch touchscreen + keypad operation, maximum speed up to 650rpm.



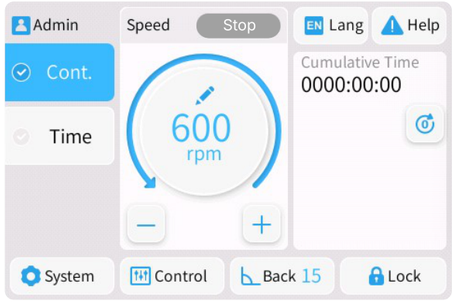
During installation, align the main shaft of the applicable pump head with driver's output shaft, then adjust the position to secure the pump head on the pump head bracket.



- Power switch: [O] for off, [I] for on
- 3-in-1 socket: Containing a fuse
- External control input interface: Can be connected to a DB25 male connector signal cable
- 3.5mm audio port: For foot switch connection
- RJ45: For firmware update with software utility

Operation Introduction

The common functions on the home page are listed below, refer to user manual for detailed description and the introduction of other working modes.



	User account. Can be configured in system settings.
	Currently selected working mode.
	Unselected working mode.
Stop	Pump run state.
600 rpm	Working parameters button. Click to modify parameters.
	Reset button. Click to clear the accumulation parameters.
	Current transmission direction.
− +	Parameter fine adjustment button. Parameter changes by the minimum resolution on each click.

DB25 Connector Pin Description

Pin Number	Pin Definition	Description
1	AIN_V/F+	Speed input signal (0~5V, 0~10V, or 0-10Khz)
14	AIN_I+(20mA)	Speed input signa or flow sensor input signal (4-20mA)
2	AIN_COM	Signal source reference ground
15	VCC_5V(10mA)	Power supply, 5V/0.01A
3	GND	
16	R/S_IN+	Start/Stop control signal +
4	R/S_IN-	Start/Stop control signal -
17	Z/F_IN+	Run direction control signal +
5	Z/F_IN-	Run direction control signal -
18	SPEED_OUT_C	Run speed control signal +
6	SPEED_OUT_E	Run speed control signal -
19	STAT_OUT+	Exception state output signal
7	STAT_OUT-	
20	R/S_OUT+	Run state output signal
8	R/S_OUT-	
21	Z/F_OUT1	Run direction output
9	Z/F_OUT2	
22	P1_RS485-A	RS485 communication bus
10	P1_RS485-B	
23	NC	Not defined.
11	NC	
24	485BUS_GND	RS485 communication ground
12	NC	Not defined.
25	DC24_OUT-	Power supply, 24V/0.1A
13	DC24_OUT+	