

Specification

Product model	General flow rate pump			General speed pump		
	GF200-1B	GF400-1B	GF650-1B	GS200-B	GS400-1B	GS650-1B
Speed range	0.01-200rpm	0.01-400rpm	0.01-650rpm	0.01-200rpm	0.01-400rpm	0.01-650rpm
Flow rate	0.15μL-1000mL/min	0.15μL-2000mL/min	0.15μL-3250mL/min	0.15μL-1000mL/min	0.15μL-2000mL/min	0.15μL-3250mL/min
Speed resolution	0.01rpm (<100rpm) ;0.1rpm (≥100rpm)			0.01rpm (<100rpm) ;0.1rpm (≥100rpm)		
Speed accuracy	±0.1%					
Volume	0.001-9999, Optional units: uL, mL, L			—		
Running time	0.1s-9999h					
Calibration funtion	Flowrate calibration, volume calibration, auto-calibration with a flow meter (optional)			—		
Display	3.5-inch color LCD screen shows parameters and statuses, such as pump speed, flow rate, time, volume, etc.			3.5-inch color LCD screen shows parameters and statuses, such as pump speed,time,etc.		
Running direction	Clockwise and counterclockwise					
Work mode	1.Continuous mode: continuous speed, continuous flow rate (displays the pump speed or flow rate) 2.Time mode:, time speed, time flow rate (supports repeatable time based dispensing) 3.Single volume mode:single delivery to a set volume			1.Continuous mode: displays the pump speed 2.Time mode:Supports single or repeating time-based dispensing		
Control mode	Touchscreen+ keypad control; foot switch / handheld dispenser control; external signal control; communication control.Multiple sources can be enabled simultaneously.					
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 configure on the pump.					
Communication control	RS485 interface, Modbus RTU protocol or Longer OEM protocol					
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					
User access control	Three levels of user accesses, configurable to enabled or disabled					
Key & screen Lock	The physical buttons and the touchscreen can be locked to prevent misoperation					
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.					
Prime	Fast filling or emptying at a user-configurable max speed.					
Power supply	AC100-240V (±10%) 50/60Hz					
Dimensions (LxWxH)	225mmx145mmx165mm					
Power consumption	25W	45W	65W	25W	45W	65W
Weight (drive only)	2.65kg	2.85kg		2.65kg	2.85kg	



General speed pump

GS200-1B GS400-1B GS650-1B

General flow rate pump

GF200-1B GF400-1B GF650-1B

Compact and powerful, with high flow capacity and flexible integration.
Closed-loop automatic flow calibration for stable and accurate delivery.

1

Three-color UI distinguishes work modes: Continuous, Time, and Single Volume (general flow rate pump). The interface is clear and intuitive — no manual required.



2

Ultra-wide speed range with a turndown ratio of up to 65,000:1, delivering $\pm 0.1\%$ speed accuracy even at ultra-low speeds down to 0.01 rpm.



3

The general flow rate pump can work with a flow meter to enable closed-loop automatic flow calibration in continuous mode, automatically compensating for flow fluctuations caused by changes in suction head, back pressure, and tubing wear to ensure stable and accurate delivery.



4

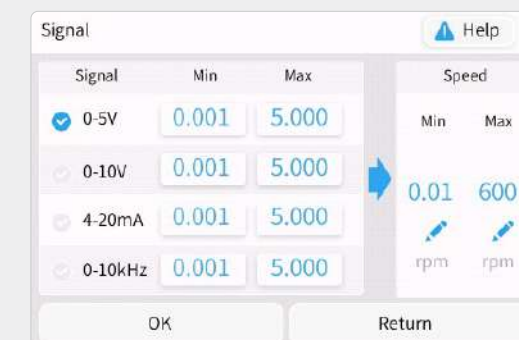
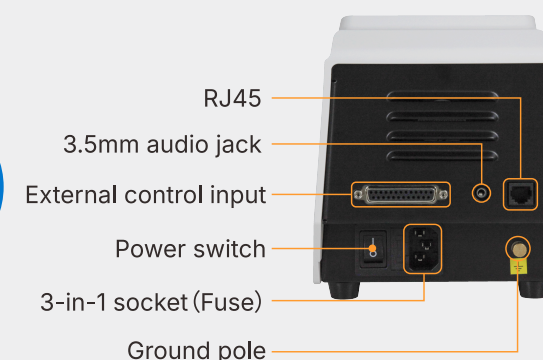
Big flow in a small footprint. Maximum flow rate: 3250 mL/min



DB25 interface supporting extensive external control, communication, and status output functions. Multiple control sources can be configured simultaneously, enabling easy integration with automation systems.



5



Typical Applications

- Chromatography
- Filtration
- Bioreactor feeding
- PH adjustment
- Tissue perfusion
- High-precision sample delivery
- Automated system and lab platform integration

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