General Dispensing Pump

Max. Flow Rate

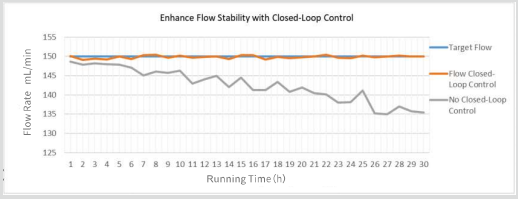
5000 mL/min

3250 mL/min

GD650-1B GD400-1B GD200-1B



Works with a flow meter to enable closed-loop automatic flow calibration in continuous mode, making it an ideal choice for long-duration uninterrupted flow reactors.



- The display features three distinct colored work modes: continuous mode,time mode, volume mode (dispensing mode).
- The touchscreen combined with the physical buttons ensures simple, smooth, and reliable operation.
- The embedded flow meter closed-loop control algorithm enables stable constant-flow delivery with ease.
- Supports voice control, freeing the hands for contactless operation.
- Low noise design ensures a comfortable operating environment.
- Three-level user access with exportable log records provides reliable data for traceability, quality audits, and compliance.

Product model	GD200-1B	GD400-1B	GD650-1B
Speed range	0.01-200rpm	0.01-400rpm	0.01-650rpm
Speed resolution	0.01rpm (＜100rpm) ;0.1rpm (≥100rpm)		
Speed accuracy	±0.1%		
Dispensing volume	0.001-9999, Optional units: uL, mL, L		
Dispensing count	0-999999,0 for unlimited		
Interval time	0.1s-9999h		
Running time	0.1s-9999h		
Calibration funtion	Flow rate 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.		
Running direction	Clockwise and counterclockwise		
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.		
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.		
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.		
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 50/60Hz		
Power consumption	30W	50W	70W
Noise(@ 1 meter)	≤50dB (A)	≤55dB (A)	≤55dB (A)
IP rating	IP32		
Dimensions (LxWxH)	305mm×190mm×201mm		
Weight (drive only)	3.5kg		
Operating condition	Environment temperature:0°C-40°C, relative humidity:<80%		

Pump Head	Tubing	Max Flow Rate Reference (mL/min) (Single Channel)		
		GD200-1B	GD400-1B	GD650-1B
YZ1515X (3rollers)	13# 14# 19# 16# 25# 17# 18#	730	1460	2350
YZ1515X (6rollers)	13# 14# 19# 16# 25# 17# 18#	320	640	960@600rpm
YZ2515X	15# 24#	530	1060	1730
YZ15-13X (YZ II 15)	13# 14# 19# 16# 25# 17# 18#	730	1460	2350
YZ25-13X (YZ II 25)	15# 24# 35# 36#	1000	2000	3250
DMD15-13	13# 14# 19# 16# 25#	690	1380	2240
FG15-13	13# 14# 19# 16# 25# 17# 18#	800	1600	2600
FG25-13	15#24#	730	1460	2380
PFH01	(ID0.5-3.2)*1.6mm; Refer to operating manual for details.	90	159@350rpm	159@350rpm
PFH02	(ID0.6-4.8)*2.4mm; Refer to operating manual for details.	523	930	1046@450rpm
DG-1/2/4/6/8 (6rollers)	ID≤3.17mm; Wall Thickness 0.8mm-1.0mm	48@100rpm	48@100rpm	48@100rpm
DG-1/2/4 (10rollers)	ID≤3.17mm; Wall Thickness 0.8mm-1.0mm	32@100rpm	32@100rpm	32@100rpm
DG15-24	16# 25# 17#	600	1200	1950
DG15-28	ID≤3.17mm, Wall Thickness 0.8mm-1.0mm 13# 14#	75@100rpm	75@100rpm	75@100rpm

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