



Dispensing Peristaltic Pump

Model No. : LabV1-AMC
Flow Rate : 0.0002-65mL/min



Product Features

Industrial grade 4.3" true color LCD screen, touch screen control.

Dynamic display transferring status. Flow rate data, setting parameters and system configuration display in the same screen.

3 Kinds of working mode: fixed volume metering, fixed time and volume, timer start and stop, meet different transferring and dispensing request.

Intelligent calibration function and online micro adjusting function.

Screen Display

Real-time flow rate changeable by touching

Display area for setting parameter

Display area for dynamic working

Display area for running parameter

Function setting are changeable by touching

Fixed Volume Measurement Setting Interface

Fixed Time and Volume Setting Interface

Time Start and Stop Setting Interface

The diagram shows a 4.3" LCD screen with the following elements:

- Top left: Real-time flow rate display (12.50 mL/min) with a touchable icon.
- Top right: Date and time (2012/07/26 10:00 AM).
- Center: Dynamic working status (59.80 rpm) and running parameters (Volume: 50.00 mL, Time: 5.00 s, Current vol: 0.00 mL).
- Right side: Setting area with icons for Setting, Calibration, Date & Time, Volume, Dispensing, and Timing.
- Bottom: Three detailed setting interfaces:
 - Fixed Volume Measurement Setting Interface:** Shows 'Fixed volume' (OFF/ON) and 'Volume' (0.00 L).
 - Fixed Time and Volume Setting Interface:** Shows 'Dispensing' (OFF/ON), 'Running time' (1.00 s), 'Run time' (0000), 'Volume' (10.00 mL), and 'Suspend time' (1.00 s).
 - Time Start and Stop Setting Interface:** Shows 'Start Time' (08:30:00 AM) and 'Over Time' (05:30:00 PM) with 'Once' and 'Custom' options.



Pump Head Flow Rate

AMC Series pump head Technical Specifications									
Channel number	1	2	3	4	5	6	8	10	12
Rollers material	304/316 stainless steel material								
Rollers number	10 rollers, 6 rollers								
Tubing	Speed	Flow rate of pump head with 10 rollers (mL/min)	Flow rate of pump head with 6 rollers (mL/min)	Tubing Max.Pressure(Mpa)					
				Intermittent	Continuous				
1×1	0.1~150rpm	0.0050~7.55	0.0062~9.36	0.1	0.1				
2×1		0.0183~27.52	0.0220~33.06						
2.4×0.8		0.0254~38.13	0.0319~47.81						
3×1		0.0323~48.38	0.0434~65.17						
0.13×0.86		0.0002~0.29	0.0002~0.31						
0.19×0.86		0.0003~0.44	0.0003~0.46						
0.25×0.86		0.0005~0.76	0.0005~0.80						
0.51×0.86		0.0013~2.00	0.0014~2.05						
0.89×0.86		0.0030~4.47	0.0031~4.65						
1.14×0.86		0.0061~9.16	0.0065~9.74						
1.42×0.86		0.0125~18.75	0.0142~21.28						
2.06×0.86		0.0197~29.60	0.0234~35.17						
2.79×0.86		0.0286~42.86	0.0372~55.77						



Technical Specifications

Flow rate range	0.0002~65 mL/min	External speed control signal	0-5V, 0-10V, 4-20mA for option
Speed range	0.1-150 rpm	Start/stop,direction signal	Passive switch signal, such as foot pedal switch Active switch signal: 5-24V universal
Speed resolution	0.01 rpm		
Flow rate resolution	0.01mL	Communication interface	RS232, RS485 support MODBUS protocol(RTU mode)
Flow rate accuracy	<±0.5%		
Back suction angle	0-360°	Output interface	Output motor working status (Open-Collector output)
Motor type	Stepper motor		
Display	Industrial grade 4.3" LCD color display	Power supply	AC 220V±10% 50Hz/60Hz (standard) AC 110V±10% 50Hz/60Hz (optional)
Control method	Touch screen and Mechanical keypad	Drive dimension(L×W×H)	261.4×157.3×236.9 mm
Keypad lifetime	300,000 times	Drive weight	4.40 kg
Motor type	Servo motor	Condition temperature	0-40℃
Display	Industrial grade 4.3" color LCD display	Power consumption	<50W
Control method	Touch screen and Mechanical keypad	Relative humidity	<80%
Keypad lifetime	300,000 times	IP rate	IP 31

Dimension Drawing (Unit:mm)

