



Power Switch
 USB Interface
 External Control Interface

BQ80S Speed-Variable Peristaltic Pump

BQ80S speed-variable peristaltic pump in the previous generation on the basis of the appearance design optimization and product function upgrade, low flow rate of 0.0035–34mL/min, speed accuracy $<\pm 0.5\%$, added mobile phone App remote control, locked rotor alarm, leakage alarm and smart functions, human-computer interaction more friendly. BQ80S is used for precise transmission of small flow liquids and high precision dispensing, suitable for instrument matching and laboratory use.

Application Fields: Laboratories, Environmental Protection, Chemical, New Energy, and other sectors

Typical Applications: Laboratory dispensing (e.g., neutralization reactions), Water treatment sampling, Liquid addition and discharge for synthetic reactions, Supporting new energy production lines, etc.

Features

- Using the cortex m3 core processor, the running speed is fast and the device speed accuracy is high.
- LCD display, switching between Chinese-English interface, simple parameter setting, intuitive state display.
- Mobile App remote control (optional), the remote pump operation can be realized by using Lead Fluid APP software. It also has monitoring functions such as operating status (optional).
- locked rotor alarm, leakage alarm (optional). And send the alarm signal to your mobile APP, remind you to deal with it in time, avoid unnecessary losses.
- The tube life alarm function dynamically calculates the remaining service life of the tube and reminds you to replace the tube in time.
- Added slow stop function to make the equipment run more reliable.
- Start/stop, reversible direction, full speed and adjust speed, state memory (power-down memory).
- External analog adjust speed, external control start-stop, reversible direction, external control signal physical isolation.
- The type of external speed control signal (voltage or current) can be switched on the control panel.
- Dustproof and moisture-proof circuit board design, external control signal supports 5-24V wide voltage input, super anti-interference characteristic.
- Design of injection shell, effectively prevent the erosion of various organic solvents, easy to clean.
- RS485 communication, MODBUS protocol is available, easy to connect with other equipments.
- Open multiple control parameters, suitable for ODM custom applications.

Technical Parameters

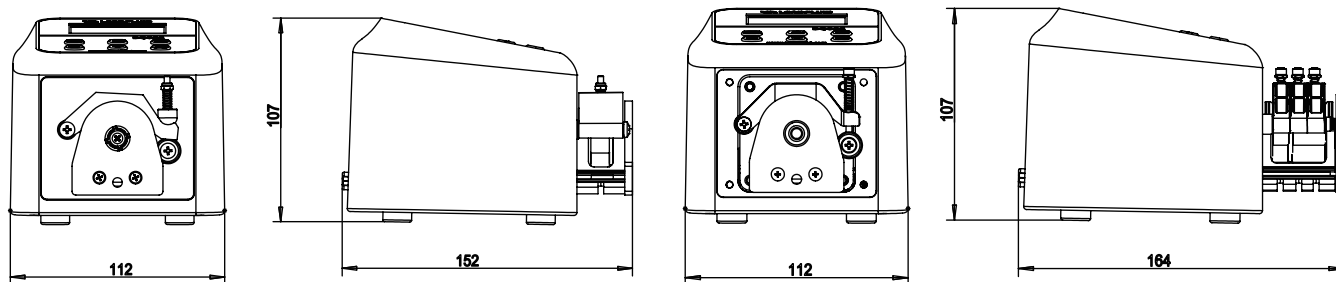
Parameter	BQ80S
Flow range	0.0035~34mL/min
Speed range	0.1~80 rpm
Speed resolution	0.1rpm
Speed accuracy	<±0.5%
Working time	0.1 ~ 999 S/Min/H/D
Dispensing interval time	0.1 ~ 999 S/Min/H/D
Dispensing time	1 ~ 999,"0" Infinite loops
External control	(1) Start/Stop: passive contact, external control input level (5~24V) (2) Forward/Reverse: passive contact, external control input level (5~24V) (3) Speed Regulation: analog 0~5V, 0~10V, 4~20mA can be set.
Communication interface	RS485 communication interface, MODBUS protocol is available
Power supply	AC100-240V, 50/60Hz(power adapter included)
Power consumption	<10W
Noise	60DB
Working environment	Temperature 0 ~ 40°C, relative humidity < 80%
Dimension (L×W×H)	DW10-1: 152×112×107mm , DW10-3: 164×112×107mm
IP grade	IP31

BQ80S Applicable Pump Head and Tube, Flow Parameters

Drive Type	Pump Head	Channel	Tube	Single Channel Flow Rate (mL/min)
BQ80S	DW10-1	1	Wall 0.8~1mm, ID≤3.17mm	0.0035~34
	DW10-3	3	Wall 0.8~1mm, ID≤3.17mm	0.0035~34

Above flow parameters are obtained by using silicone tube to transfer pure water under normal temperature and pressure, in actually using it is effected by specific factors such as pressure, medium etc. Above for reference only.

Dimension (mm)



BQ80SV2-DW10-1

BQ80SV2-DW10-3

Statement: The final explanation right of above information belongs to Lead Fluid.