

# Intelligent Dispensing Peristaltic Pump | I-Series

## MP110I | MP310I | MP610I (ABS Engineering Plastic Housing)

Intelligent Dispensing Peristaltic Pump is a state-of-the-art liquid handling instrument engineered to offer unparalleled control, accuracy and user experience. At its core is a vibrant 4.3" color touchscreen interface coupled with an intuitive keypad, enabling precise management of parameters like flow rate, direction and dispensing volume. With advanced features such as wizard-style flow calibration, anti-drip back suction, multi-segment dispensing, and memory retention, the pump ensures consistency in complex and repetitive workflows. These capabilities make it ideal for high-precision applications in pharmaceuticals, chemicals, biotech, and diagnostic research. Designed with automation in mind, the pump supports RS 485 MODBUS communication with over 80 programmable commands, as well as external analog and digital inputs, allowing seamless integration with laboratory automation systems and external controllers. Available in both heavy-duty stainless steel and lightweight ABS plastic housing variants, it caters to a wide range of environments—from Industrial production setups to compact R&D labs.

### MP110I

Flow Rate : 0.00011-750 ml/min  
Speed Rate : 0.1~150 RPM  
Driver Weight : 3.6kg  
Power Consumption : <30W

### MP310I

Flow Rate : 0.005-1750 ml/min  
Speed Rate : 0.1~350 RPM  
Driver Weight : 3.9 kg  
Power Consumption : <40W

### MP610I

Flow Rate : 0.005- 3000 ml/min  
Speed Rate : 0.1~600 RPM  
Driver Weight : 3.9 kg  
Power Consumption : <50W



Quick Tube Change



Stainless Steel Rotors

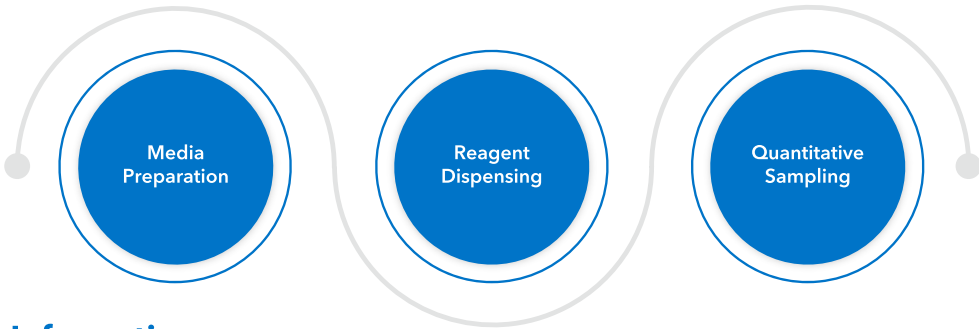


Moderate Pulsation

### Technical Specifications:

|                          |                                                                                                                                    |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Speed Resolution         | 0.1RPM                                                                                                                             |
| Speed Accuracy           | <±0.2%                                                                                                                             |
| Dispensing Volume        | 0.001μL~9999L (The recommended minimum filling volume is 50 μL)                                                                    |
| Dispensing Time          | 1~999,"0" Infinite loops                                                                                                           |
| Dispensing Interval Time | 0.1~999.9 S/Min/H, time unit adjustable                                                                                            |
| External Control         | External control input level 5V, 12V (Standard), 24V (Optional), External control analog 0-5V (Standard), 0-10V, 4-20mA (Optional) |
| Working Environment      | Temperature 0~40°C, relative humidity<80%                                                                                          |
| Communication Interface  | RS485 communication interface, MODBUS protocol is available                                                                        |
| IP Grade                 | IP31                                                                                                                               |
| Dimension (L×W×H)        | 258mm ×180mm ×197mm                                                                                                                |

### Application Areas:



### Ordering Information:

| Model No. | Pump Head | Channel | Tubing Size                 | Flow rate per channel (ml/min) |
|-----------|-----------|---------|-----------------------------|--------------------------------|
| MP110I    | PH15T     | 1,2     | 13# 14# 19# 16# 25# 17# 18# | 0.005~641                      |
|           | PH25      | 1       | 114# 116# 15# 24# 35# 36#   | 0.024~750                      |
| MP310I    | PH15T     | 1       | 13# 14# 19# 16# 25# 17# 18# | 0.005~1495                     |
|           | PH25      | 1       | 114# 116# 15# 24# 35# 36#   | 0.024~1750                     |
| MP610I    | PH15T     | 1       | 13# 14# 19# 16# 25# 17# 18# | 0.005~2562                     |
|           | PH25      | 1       | 114# 116# 15# 24# 35# 36#   | 0.024~3000                     |