



# IP66 Industrial Peristaltic Pump

Model : HPM100-SS/AMC

Flow Rate : 0.0002-65mL/min

IP rate : IP66



## Introduction

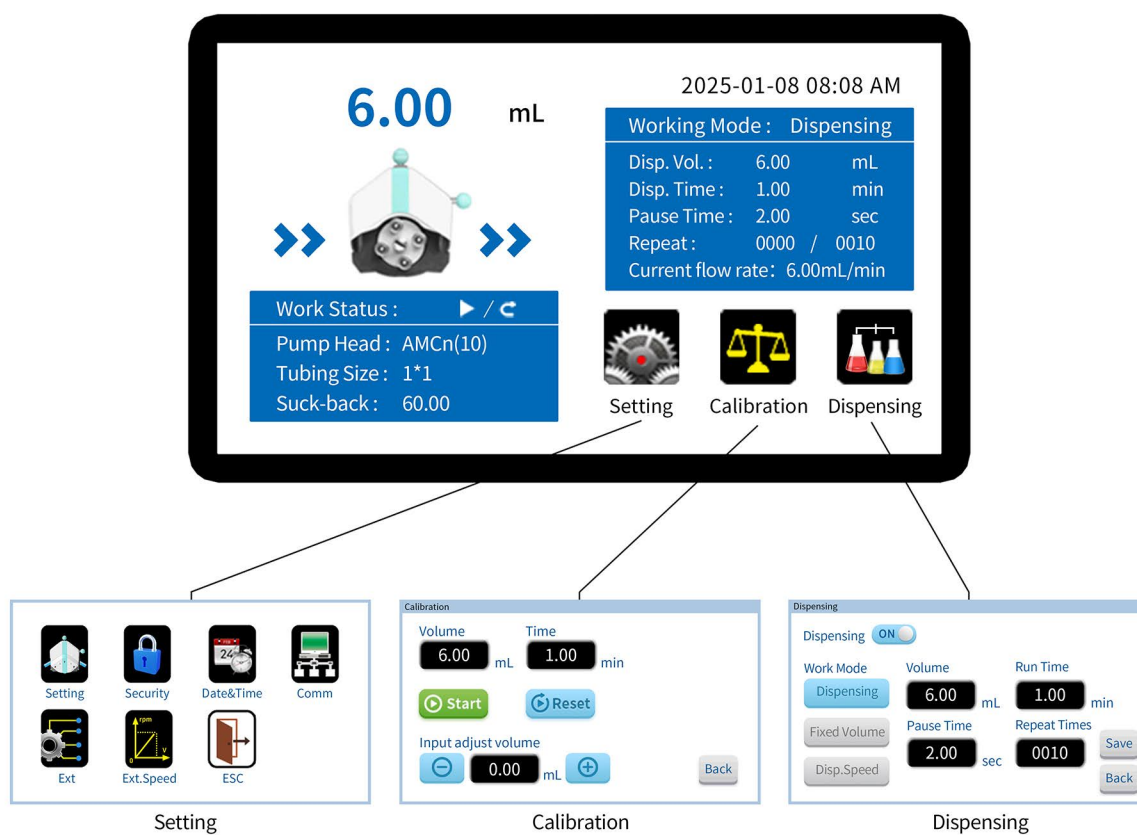
- Equipped with a 4.3-inch color LCD touchscreen.
- Features real-time animation to display current operating status.
- Flow rate data, preset parameters, and system configurations are all displayed on a single screen.
- Built-in smart calibration function.
- Supports multiple external control modes to easily meet remote operation requirements.
- Features a three-level user authority management system.

## Product Features

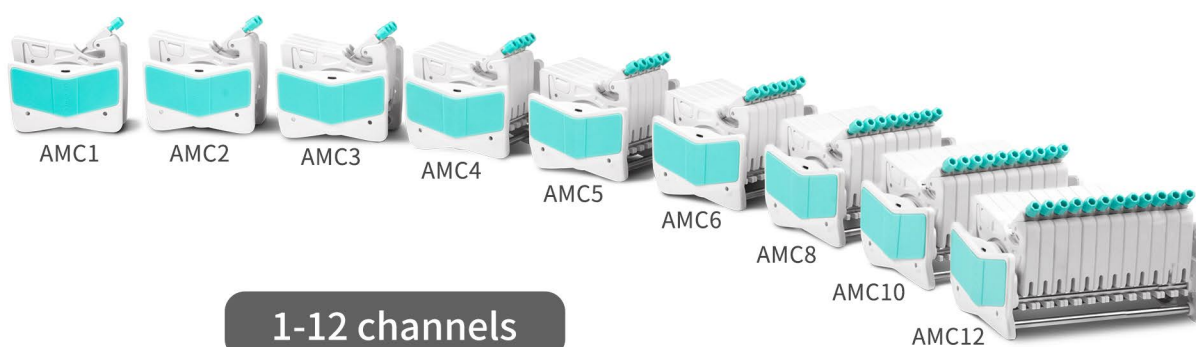
- The external control interface features internal and external circuit isolation, minimizing electromagnetic interference and accidental damage to ensure the safe operation of the main control system and connected equipment.
- Designed to meet GMP certification requirements; the stainless steel housing is sleek, easy to clean, and simple to disinfect.
- The entire unit features an IP66 protection rating, ensuring long-term stable operation.



## Control Interface



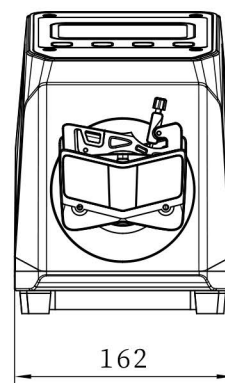
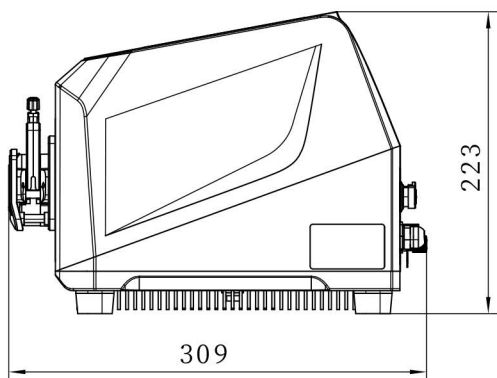
## Pump Head



| Pump Head      | Tubing Size                    | Speed      | Flow rate(mL/min) |
|----------------|--------------------------------|------------|-------------------|
| AMC1-AMC12(10) | ID: 0.13-3.17mm, Wall: 0.8-1mm | 0.1-150rpm | 0.0002-48         |
| AMC1-AMC12(6)  | ID: 0.13-3.17mm, Wall: 0.8-1mm |            | 0.0002-65         |



■ Dimension Drawing(mm)





## Specifications

|                                  |                                                                                                        |
|----------------------------------|--------------------------------------------------------------------------------------------------------|
| EMC Standard                     | IEC 61000-6-2/IEC 61000-6-4/IEC 61000-3-2/IEC 61000-3-3                                                |
| Housing material                 | Stainless Steel 304                                                                                    |
| Speed range                      | 0.1-150 rpm                                                                                            |
| Speed adjustment resolution      | 0.01 rpm                                                                                               |
| Display                          | 4.3 inch-industrial grade- colorful LCD screen                                                         |
| Control modes                    | Touch screen, mechanical keypad, external control signal control, communication control                |
| Working modes                    | Transferring mode, dispensing mode (Fixed volume, dispensing, speed dispensing)                        |
| Transferring mode                | Continuous operation at set flow rate and speed                                                        |
| Dispensing mode                  | Dispensing: Set volume, time, repeat numbers, pause time                                               |
|                                  | Dispensing: set volume, flow rate, repeat numbers, pause time                                          |
|                                  | Speed dispensing: set speed (rpm), time, repeat numbers, pause time                                    |
| Dispensing volume range          | 0.1ml - 9999L                                                                                          |
| Dispensing time range            | 0.1s - 9999h                                                                                           |
| Pause time range                 | 0.5s - 9999h                                                                                           |
| Repeat numbers                   | 1-9999 times, 0 means unlimited times                                                                  |
| Calibration                      | Automatic calibration after inputting actual running liquid volume                                     |
| Back suction angle               | 0-360°                                                                                                 |
| Communication interface          | RS485                                                                                                  |
| Communication protocol           | Modbus protocol (RTU mode)                                                                             |
| External control speed signal    | 0-5V, 0-10V, 4-20mA (for option)                                                                       |
| External control signal input    | Active switch signal (5-24V) controls start/stop, direction; Passive switch signal controls start/stop |
| Signal output                    | Open collector output operation status;4-20mA output                                                   |
| Open cover to stop pump function | Prevent misoperation and effectively protect user safety                                               |
| three levels of permissions      | Reasonable configuration of operation permissions                                                      |
| Drive dimension                  | 268mm*162mm*223mm (L*W*H)                                                                              |
| Power supply                     | AC110-220V±10%,50/60Hz                                                                                 |
| Rated power                      | 100W                                                                                                   |
| Working environment              | 0-40°C                                                                                                 |
| Drive weight                     | 11.5kg                                                                                                 |
| Relative humidity                | <100%                                                                                                  |
| Protection level                 | IP66                                                                                                   |



■ ■ ■ IP Ratings



|   |                                          |                                                |   |
|---|------------------------------------------|------------------------------------------------|---|
| 0 | NO protection                            | NO protection                                  | 0 |
| 1 | Solid foreign objects<br>diameter >50mm  | Vertical dripping water                        | 1 |
| 2 | Solid foreign objects<br>diameter >12mm  | Dripping water when<br>tilted at 15°           | 2 |
| 3 | Solid foreign objects<br>diameter >2.5mm | Spraying water                                 | 3 |
| 4 | Solid foreign objects<br>diameter >1mm   | Splashing water                                | 4 |
| 5 | Dust protected                           | Water jets                                     | 5 |
| 6 | Dust-tight                               | Powerful water jets                            | 6 |
|   |                                          | Short time immersion,<br>up to 1 meter depth   | 7 |
|   |                                          | Continuous immersion,<br>1 meter or more depth | 8 |