

## Explosion Proof Peristaltic Pump

**Model No.:** ExD-600-12L/DY35

**Flow Rate:** 2.25-12740mL/min



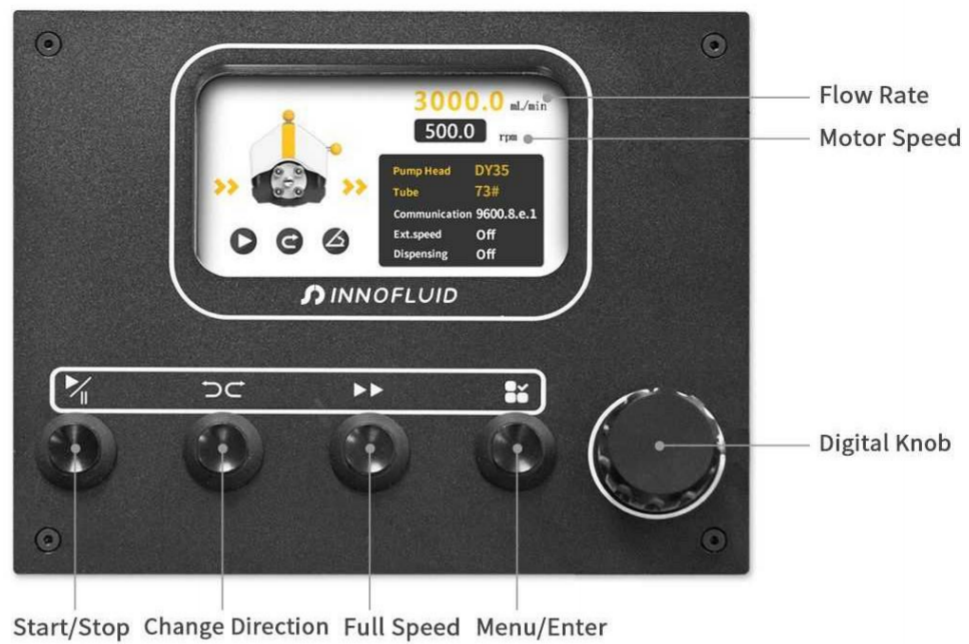
### ■ Product Introduction

- A new category of peristaltic pump based on explosion proof standards.
- The whole pump is explosion proof, reaching  II2G Ex db IIC T4 Gb and  II2D Ex tb IIIC T130°C Db explosion proof levels at the same time.
- Intelligent control system to realize high precision transferring and dispensing.

### ■ Product Features

- Integrated casting body.
- IP66 designed for industrial environment.
- Three-proof buttons and knob system: explosion-proof dustproof, waterproof.
- Intelligent operation system.
- Passed EMC test excellent anti-electromagnetic interference capability.
- AC servo motor control system.
- Laser engraving logo pattern to eliminate the hidden danger of static electricity of traditional plastic label.
- Three levels of permissions management function.

## ■ Intelligent operation system

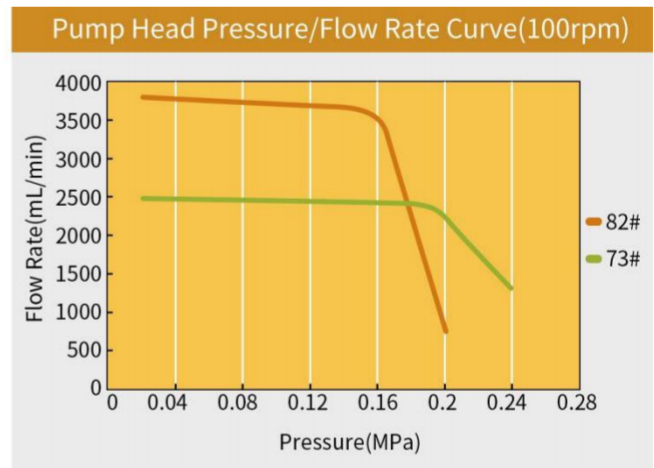
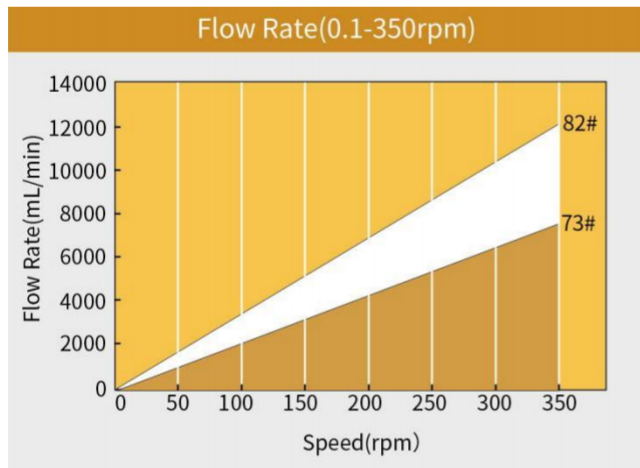


## ■ Pump Head & Flow Rate



DY35

| DY35 Flow Rate |                  |             |      |        |                       |                    |            |
|----------------|------------------|-------------|------|--------|-----------------------|--------------------|------------|
| Pump Head      | Housing Material | Speed (rpm) | mL/r | Tubing |                       | Flow Rate (mL/min) | Weight(kg) |
|                |                  |             |      | Size   | IDxWall Thickness(mm) |                    |            |
| DY35           | Aluminum alloy   | 0.1-350     | 22.5 | 73#    | 9.6x3.3               | 2.25-7875          | 10.6       |
|                |                  |             | 26.4 | 82#    | 12.7x3.3              | 3.64-12740         |            |



| DY35 Filling Volume Reference Parameter |        |                     |                 |              |                 |                   |
|-----------------------------------------|--------|---------------------|-----------------|--------------|-----------------|-------------------|
| Pump Head                               | Tubing | Filling Volume (mL) | Filling Time(s) | Accuracy(±%) | Output(pcs/min) | Motor Speed (rpm) |
| DY35                                    | 73#    | 300                 | 3               | 0.5          | 15              | 245.1             |
|                                         | 82#    | 500                 | 3               | 0.5          | 15              | 269.2             |

## ■ Technical Specifications

|                                |                                                                                                                     |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Marking                        | Ex II2G Ex db IIC T4 Gb; Ex II2D Ex tb IIC T130°C                                                                   |
| Standard                       | ENIEC 60079-0:2018+A11:2024; ENIEC60079-1:2014+A11:2024;EN IEC 60079-31:2018                                        |
| Housing material               | Aluminum Alloy                                                                                                      |
| Speed range                    | 0.1-350rpm                                                                                                          |
| Speed resolution               | 0.1rpm                                                                                                              |
| Display                        | 4.3 inch-Industrial grade-True color LCD screen                                                                     |
| Control                        | Mechanical button, explosion proof knob, external control signal and communication                                  |
| Working mode                   | Flow rate mode, Dispensing mode                                                                                     |
| Flow rate mode                 | Continuous transferring according to the set flow rate or motor speed                                               |
| Dispensing mode                | Set the dispensing volume, dispensing time, pause time and repeat numbers                                           |
| Dispensing volume              | 0.1mL-9999L                                                                                                         |
| Dispensing time                | 0.1sec-9999hour                                                                                                     |
| Pause time                     | 0.5sec-9999hour                                                                                                     |
| Repeat number                  | 1-9999 times,0 represent unlimited                                                                                  |
| Calibration function           | Input actual volume and calibrate automatically                                                                     |
| Back suction angle             | 0-360°                                                                                                              |
| Communication                  | RS485                                                                                                               |
| Communication protocol         | Modbus protocol(RTU mode)                                                                                           |
| External control speed signal  | 0-5V,0-10V,4-20mA optional                                                                                          |
| External control signal input  | Active switch signal (5-24V)control start/stop, direction and full speed; Passive switch signal control start/stop. |
| External control signal output | Open collector output working status                                                                                |
| Three levels of permissions    | Three user access levels (Administrator, Technician, and Operator) with distinct permission settings                |
| Drive dimension(LxWxH)         | 458x285x335mm                                                                                                       |
| Power supply                   | AC110-220V±10%,50Hz/60Hz                                                                                            |
| Rated power                    | 300W                                                                                                                |
| Relative humidity              | <90%                                                                                                                |
| Condition temperature          | 0-40°C                                                                                                              |
| IP rate                        | IP66                                                                                                                |
| Drive weight                   | 30.1kg                                                                                                              |

■ **Dimension Drawing(Unit:mm)**

