

## Piezo Motor Servo Controller



### Features

- Multi-channel piezo motor servo control
- Modular design, flexible option of different channels
- Support incremental linear scale
- Host digital communication control

### Description

#### Multi-channel inertial motor servo driver

Channels from 1 to 3 are available as request, supporting servo control of Yinguan PMIN series piezo stick-slip inertial motors, including open-loop stepping motion mode, open-loop analog drive mode, closed-loop motion mode.

#### High-precision sensor interface

Providing high-precision linear scale signal interface with incremental ABZ type.

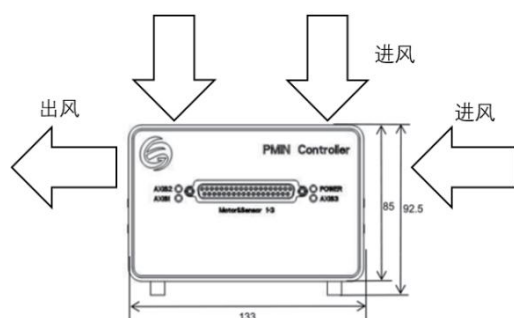
#### Digital communication control

Providing RS-485 communication interface, with Modbus RTU protocol. The efficient and multi-function command set can meet the high-performance motion control of piezo motors and real-time monitoring of the driver status.

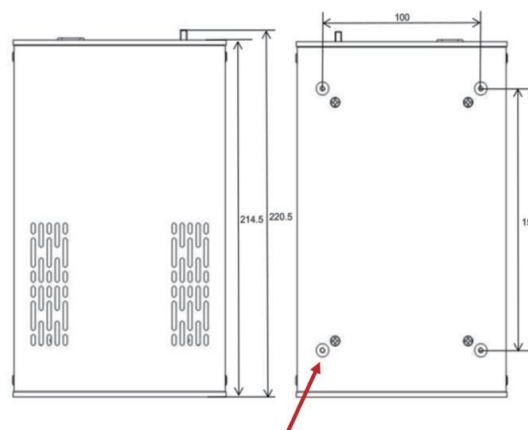
### Applications

- Semiconductor testing equipment
- Electron microscope sample stage adjustment
- Lens precision adjustment
- Precision medical testing equipment

## Interface Definition



Applicable model: C-901.3B, C-902.3B, C-903.3B  
Unit: mm



机壳安装接口: 4个M3螺孔, 深度3mm, 集成在支撑脚处

## Technical Specifications

| Basics                           | C-90x.3B  | Unit     |
|----------------------------------|---|----------|
| Function                         | 1~3 channel PMIN piezo motor servo controller, incremental linear scale closed loop |          |
| Output voltage                   | 0~70  | V        |
| Max. output current              | 0.5A /channel   |          |
| <b>Interfaces and operations</b> |   |          |
| Communication interface          | RS-485  |          |
| Motor/Sensor Connector           | DB37 (Female)   |          |
| Sensor type                      | incremental linear scale, ABZ type(Motor interface RS-422)                          |          |
| Communication Protocol           | Modbus RTU  |          |
| User software                    | PMIN Soft Panel   |          |
| Support function                 | point-to-point motion   |          |
| <b>Miscellaneous</b>             |   |          |
| Operating voltage                | 24VDC   |          |
| Max.Power                        | 50  | W        |
| Operating temperature range      | 5~50  | °C       |
| Dimensions                       | 133 × 221 × 85  | mm×mm×mm |

## Customization Information

C-90x series piezo motor servo controller

| Type     | Feature  |
|----------|--|
| C-901.3B | 1-channel PMIN piezo motor servo controller, closed loop, RS-485 |
| C-902.3B | 2-channel PMIN piezo motor servo controller, closed loop, RS-485 |
| C-903.3B | 3-channel PMIN piezo motor servo controller, closed loop, RS-485 |