

## Piezo Linear Driver Controller



### Features

- Analog control interface
- RS485 communication control
- Switchable open/closed-Loop mode
- Compatible with strain gauge sensors
- PI servo control and Notch filter
- Temperature detection/output protection

### Description

#### Analog piezo linear servo driver controller

The A-303 series piezo driver controller utilizes analog control to enable open-loop driving of piezo actuator products and servo closed-loop control with strain gauge sensors.

#### High-precision sensor interface

Provides a high-precision strain gauge sensor input interface, achieving nanometer-level resolution.

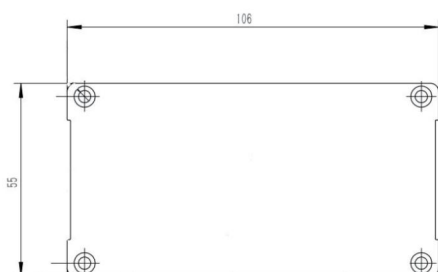
#### Control modes

Supports analog interface control and RS485 communication control for real-time motion control and position monitoring. Built-in PI control algorithm and Notch filter enhance dynamic response and closed-loop accuracy. Features output overcurrent/overvoltage protection, temperature detection/error reporting, and other monitoring functions.

### Applications

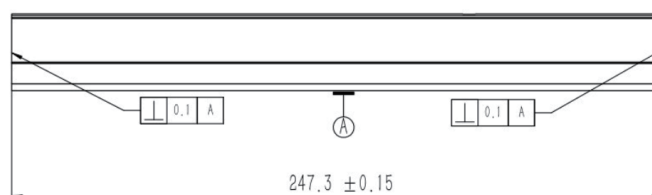
- Lens precision adjustment
- Precision semiconductor equipment
- Precision electron microscope adjustment
- Precision medical testing equipment

### Interface Definition



Chassis dimensions 247\*106\*55mm

## Interface Definition(continued)



Applicable model: A-303.1A

Unit: mm

## Technical Specifications

Basics	A-303.1A	Unit
Function	Analog three-channel piezoelectric linear drive controller, with SGS closed-loop	
Motor Channels	3	
Output voltage	-20-150	V
Peak power / channel	55	W
Average output power / channel	17	W
Peak current / channel	367	mA
Average current / channel	117	mA
<b>Interfaces and operations</b>		
Analog control interface	SMB analog voltage input: 0~10V	
RS485 communication interface	D-SUB9 male connector	
PZT&SGS interface	D-SUB25 female connector	
Sensor type	Strain gauge sensor (SGS)	
Support function	Point-to-point motion	
<b>Miscellaneous</b>		
Operating voltage	DC24V	
Maximum power consumption	70	W
Operating temperature range	5~50	°C
Dimensions	247×106×55	mm×mm×mm
Net weight	1.25±0.1	Kg

## Customization Information

A-303 Series Piezo linear driver controller

Type	Feature
A-303.1A	3-channel piezo linear driver controller, closed loop, analog control interface/RS485 interface