

NEW Single axis Stage Controller

ASC-01



- Application Systems
- Machine Vision
- Manual Positions
- Motion Control Products**
- Optical & Mirror Holder
- FA Parts
- Measurement & Control
- FA Electrical Parts
- Tool & Measure
- Cleanroom & AntiStatic
- Index
- Piezo Stage
- Precision Linear MS
- High Speed MS
- Motorized Goniometer
- Motorized Rotation
- Multiaxis Motorized
- Industrial Robot
- Controller & Driver & Cable**
- Custom-Built MS

A single axis stage controller with built-in 5-phase stepping motor driver.

- External control with RS232C interface, operation with a jog switch on the front panel, and jog operation with external I/O are available.



Guide

- ▶ Sample programs are available for download on our website.
 - SGCommander 32/64-bit version for Windows® (only for RS232C)
 - LabVIEW for RS232C (for v.5.1/v.6i/v7.1/v.8.6/v.2010)

Attention

- ▶ Power supply is DC+24V 2A. You need to purchase the ASC-PS (AC adapter) or prepare an adapter separately.

| Part Name | Part Number |
|------------------------------|---------------|
| Single axis Stage Controller | ASC-01 |
| AC Adapter | ASC-PS |

Primary Functions

| | |
|--------------------------------|-----------|
| Controller Function | ○ |
| Number of Control Axes | 1 |
| Stored Program Control | — |
| Feedback Control | — |
| Circular Interpolation Control | — |
| Linear Interpolation Control | — |
| Driver Function | Standard |
| Micro-step (Max. Division) | 2 |
| Driving Current (A/phase) | 0.2 – 0.8 |

Performance Specifications

| | |
|-------------------------------------|------------|
| Coordinate Indication Range | — |
| Max. Travel to Set | 16,777,215 |
| Max. Driving Speed (pps) | 20,000 |
| Min. Driving Speed (pps) | 100 |
| Acceleration/Deceleration Time (ms) | 0 – 1,000 |

Control Command

| | |
|--------------------------------|---|
| Machine Origin Return | ○ |
| Theoretical Origin Setting | ○ |
| Relative Position Drive | ○ |
| Absolute Position Drive | ○ |
| Jog Operation | ○ |
| Position Appointment | — |
| Circular Interpolation Control | — |
| Linear Interpolation Control | — |
| Drive | ○ |
| Deceleration Stop | ○ |
| Emergency Stop | ○ |
| Speed Setting | ○ |
| Motor Free/Hold | ○ |
| Port Input | ○ |
| Port Output | ○ |
| Origin Offset Setting | ○ |
| Jog Operation Speed Setting | ○ |

General Specifications

| | |
|-------------------------------|-------------|
| Power Voltage | DC24V 2A |
| Power Consumption | 48VA |
| Operating Temperature | 5 – 40°C |
| Storage Temperature | — |
| Ambient Humidity | 20 – 80%RH |
| External Dimensions (W×H×Dmm) | 47×125×90 |
| Weight (kg) | 0.4 |

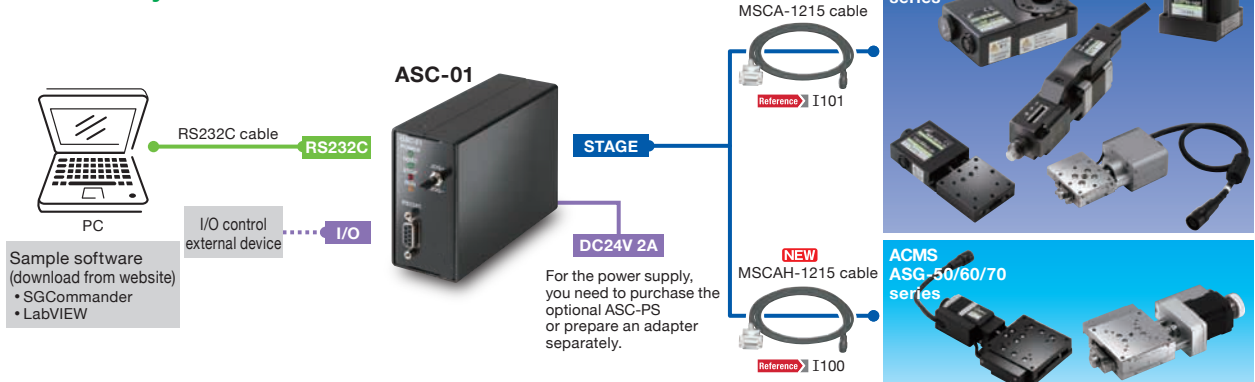
I/O Specification

| | |
|------------------------|----------|
| Origin Sensor | — |
| Proximity Sensor | — |
| CW (+) Limit | ○ |
| CCW (-) Limit | ○ |
| General Purpose Input | 4 points |
| General Purpose Output | 4 points |
| Control Input | 3 points |
| Control Output | — |
| Trigger Output | — |

Interface

| | |
|----------|---|
| GP-IB | — |
| RS232C | ○ |
| USB | — |
| Ethernet | — |

ASC-01 System Chart



Stepping Motor Stage



* The machine origin sensor of the ACMS/ASG-50/60/70 series cannot be used. Only the MINI system and CENTER system that use limit sensors are available for homing operation.