

NEW Single axis Stage Controller

ASC-01

CE

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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

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

Interface

GP-IB	—
RS232C	○
USB	—
Ethernet	—

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

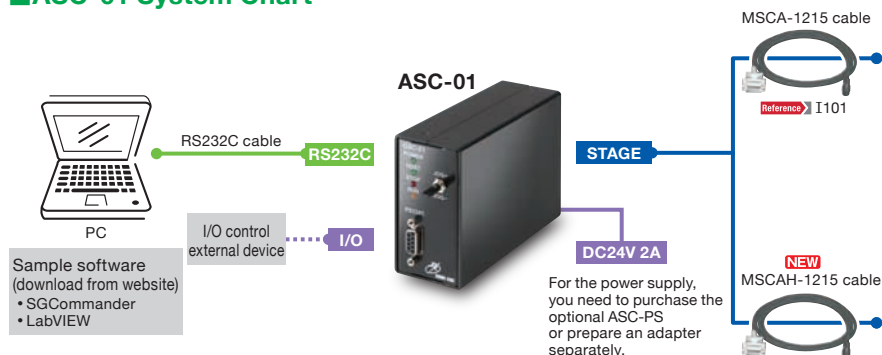
I/O Specification

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	—

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	○

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.