

2 axis / 4 axis Stage Controllers

ASC-GS



2 axis and 4 axis stage controllers with built-in micro-step driver.

- External control with RS232C/GP-IB/USB interfaces, manual operation with a control pad (SJ-200A) or dedicated controllers (JS-300, JB-400), and automatic control with two banks of stored programs are available.
- Full closed loop control is possible when used in combination with a stage with built in glass-scale.



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)
 - LabVIEW for GP-IB (for v.5.1/v.6i/v7.1/v.8.6/v.2010)

Part Name	Part Number
2 axis Stage Controller	ASC-302GS
4 axis Stage Controller	ASC-304GS
Control Pad	SJ-200A
Joy Stick	SJ-300
Jog Operation Box	SJ-400
MDR Cable	SJC-CA-2.5

Primary Functions

Part Number	SHOT-302GS	SHOT-304GS
Controller Function		○
Number of Control Axes	2	4
Stored Program Control		○
Feedback Control		GS
Circular Interpolation Control		○
Linear Interpolation Control		2 axes
Driver Function		Micro-step
Micro-step (Max. Division)		250
Driving Current (A/phase)		0.25 ~ 1.4
CJ-200A		Required

General Specifications

Power Voltage	AC100 ~ 240V 50/60Hz
Power Consumption	160VA 300VA
Operating Temperature	5 ~ 40°C
Storage Temperature	-20 ~ 60°C
Ambient Humidity	20 ~ 80%RH
External Dimensions (W×H×Dmm)	270×302×118
Weight (kg)	5.5 6.5

Interface

GP-IB	○
RS232C	○
USB	○
Ethernet	—

Optional

SJ-200A	○
SJ-300	○
SJ-400	○
SJ-02	—

Performance Specifications

Coordinate Indication Range	±999,999,999
Max. Travel to Set	268,435,455
Max. Driving Speed (pps)	500,000
Min. Driving Speed (pps)	1
Acceleration/Deceleration Time (ms)	0 ~ 1,000

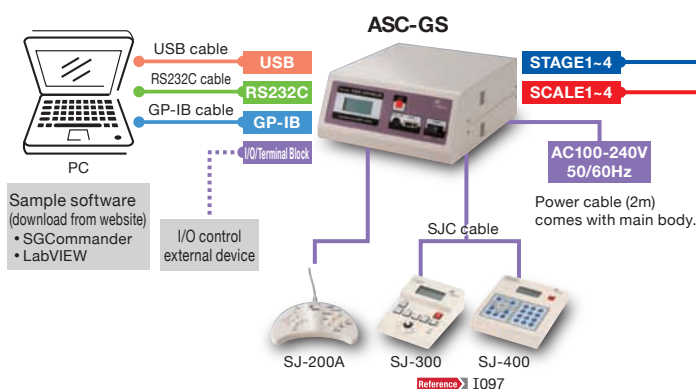
I/O Specification

Origin Sensor	○
Proximity Sensor	○
CW (+) Limit	○
CCW (-) Limit	○
General Purpose Input	4 points
General Purpose Output	4 points
Control Input	15 points
Control Output	5 points
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	○

ASC-302GS/304GS System Chart



Stepping Motor Stage



Application Systems

Machine Vision

Manual Positions

Motion Control Products

Optical & Mirror Holder

F A 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