

Application Systems

Optics & Optical Coatings

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**Stages** 

# Single axis Stage Controller | GSC-01





# Low cost single axis stage controller with built-in 5-phase stepping motor driver.

• Can be operated by computer control using the RS232C interface, by the jog switch on the front panel, or by TTL I/O.



# Guide

- Sample programs are available for download from our website.
  - SG Sample 32/64-bit version for Windows® (only for RS232C)
  - $\bullet$  LabVIEW for RS232C (for v.5.1/v.6i/v7.1/v.8.6/v.2012/v.2013/ v.2014/v.2015)

# Attention

▶ The GSC-01 requires an external power supply (24VDC, 2A output). The PAT-001-POW1 (AC adapter) can be purchased with the controller or power can be provided by the end user.

Part Name	Part Number
Single axis Stage Controller	GSC-01
AC Adapter	PAT-001-POW1

## Motoeized **Stages**

**Actuators &** Adjusters

Light Sources & Laser Safety

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Guide

Controllers/Drivers

**Stepping Motor** 

**AC Servo Motor** 

Cables

Piezo

Controller Function	0
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

■Primary Functions

Power Voltage	DC24V 2A
Power Consumption	48VA
Operating Temperature	5 – 40°C
Storage Temperature	_
Ambient Humidity	20 - 80%RH (without condensation)
External Dimensions (W×H×Dmm)	47×125×90
Weight (kg)	0.4

# ■Interface

GP-IB	_
RS232C	0
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	0
CCW (-) Limit	0
General Purpose Input	4 points
General Purpose Output	4 points
Control Input	3 points
Control Output	_
Trigger Output	_

## **■**Control Command

Machine Origin Return	0
Theoretical Origin Setting	0
Relative Position Drive	0
Absolute Position Drive	0
Jog Operation	0
Position Appointment	_
Circular Interpolation Control	_
Linear Interpolation Control	_
Drive	0
Deceleration Stop	0
Emergency Stop	0
Speed Setting	0
Motor Free/Hold	0
Port Input	0
Port Output	0
Origin Offset Setting	0
Jog Operation Speed Setting	0

# X Translation

Theta Rotation

Goniometer

Vacuum **Options** 

40 × 40 mm

60 × 60 mm

 $80 \times 80 \text{ mm}$ 

85 x 85 mm

100 x 100 mm

120 × 120 mm

Others

