

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

- Can be operated by computer control using the RS232C interface. Manual and programmed control is available using optional SJT-02 dedicated controller.



Guide

- ▶ Sample programs are available for download from our website.
 - SG Sample 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/v.2012/v.2013/v.2014/v.2015)

Attention

- ▶ The GSC-02 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
2 axis Stage Controller	GSC-02
Joystick Terminal	SJT-02
AC Adapter	PAT-001-POW1

Primary Functions

Controller Function	<input type="radio"/>
Number of Control Axes	2
Stored Program Control	<input type="checkbox"/>
Feedback Control	—
Circular Interpolation Control	—
Linear Interpolation Control	—
Driver Function	Standard
Micro-step (Max. Division)	2 (half step only)
Driving Current (A/phase)	0.3 – 0.8

△...Programs can be controlled using SJT-02.

General Specifications

Power Voltage	DC24V 2A
Power Consumption	48VA
Operating Temperature	5 – 40°C
Storage Temperature	-20 – 60°C
Ambient Humidity	20 – 80%RH (without condensation)
External Dimensions (W×H×Dmm)	180×40×125
Weight (kg)	0.7

Interface

GP-IB	—
RS232C	<input type="radio"/>
USB	—
Ethernet	—

Optional

CJ-200A	—
JS-300	—
JB-400	—
SJT-02	<input type="radio"/>

Performance Specifications

Coordinate Indication Range	—
Max. Travel to Set	16,777,214
Max. Driving Speed (pps)	20,000
Min. Driving Speed (pps)	1
Acceleration/Deceleration Time (ms)	0 – 1,000

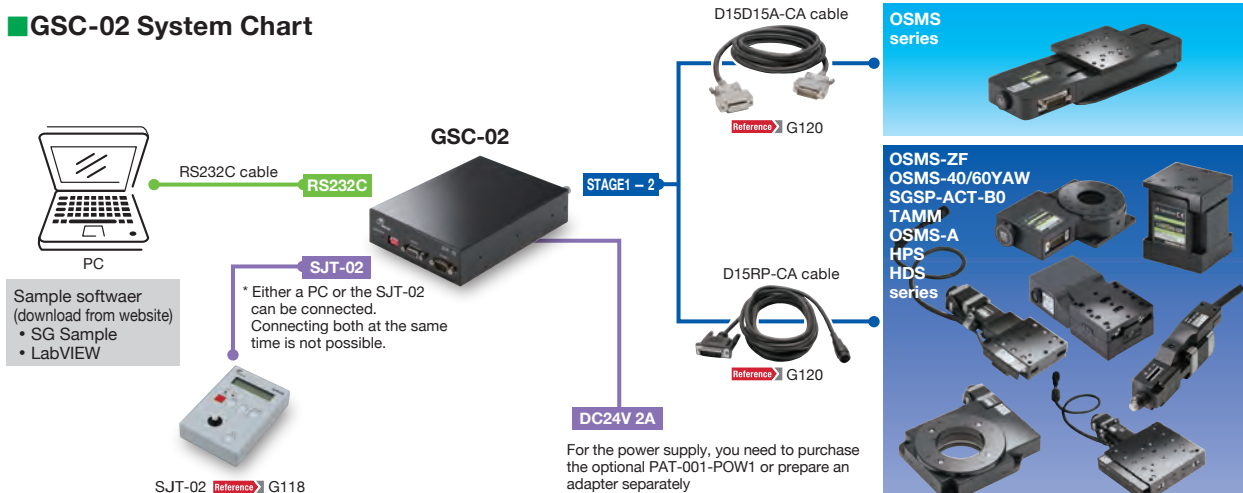
I/O Specification

Origin Sensor	<input type="radio"/>
Proximity Sensor	<input type="radio"/>
CW (+) Limit	<input type="radio"/>
CCW (-) Limit	<input type="radio"/>
General Purpose Input	—
General Purpose Output	—
Control Input	—
Control Output	—
Trigger Output	—

Control Command

Machine Origin Return	<input type="radio"/>
Theoretical Origin Setting	<input type="radio"/>
Relative Position Drive	<input type="radio"/>
Absolute Position Drive	—
Jog Operation	<input type="radio"/>
Position Appointment	—
Circular Interpolation Control	—
Linear Interpolation Control	—
Drive	<input type="radio"/>
Deceleration Stop	<input type="radio"/>
Emergency Stop	<input type="radio"/>
Speed Setting	<input type="radio"/>
Motor Free/Hold	<input type="radio"/>
Port Input	—
Port Output	—

GSC-02 System Chart



Application Systems

Optics & Optical Coatings

Opto-Mechanics

Bases

Manual Stages

Actuators & Adjusters

MotORIZED Stages

Light Sources & Laser Safety

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Guide

Controllers/Drivers

Softwares

Stepping Motor

AC Servo Motor

Cables

Piezo

X Translation

Theta Rotation

Goniometer

Vacuum

Options

40 × 40 mm

60 × 60 mm

80 × 80 mm

85 × 85 mm

100 × 100 mm

120 × 120 mm

Others