2 Axis Stage Controller GSC-02C

Low cost two axis stage controller with built-in 5-phase stepping motor driver.
Compatible with GSC-02A with some exceptions. (Refer to the next page)

- 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 on our website.
  - SG Sample
  - LabVIEW

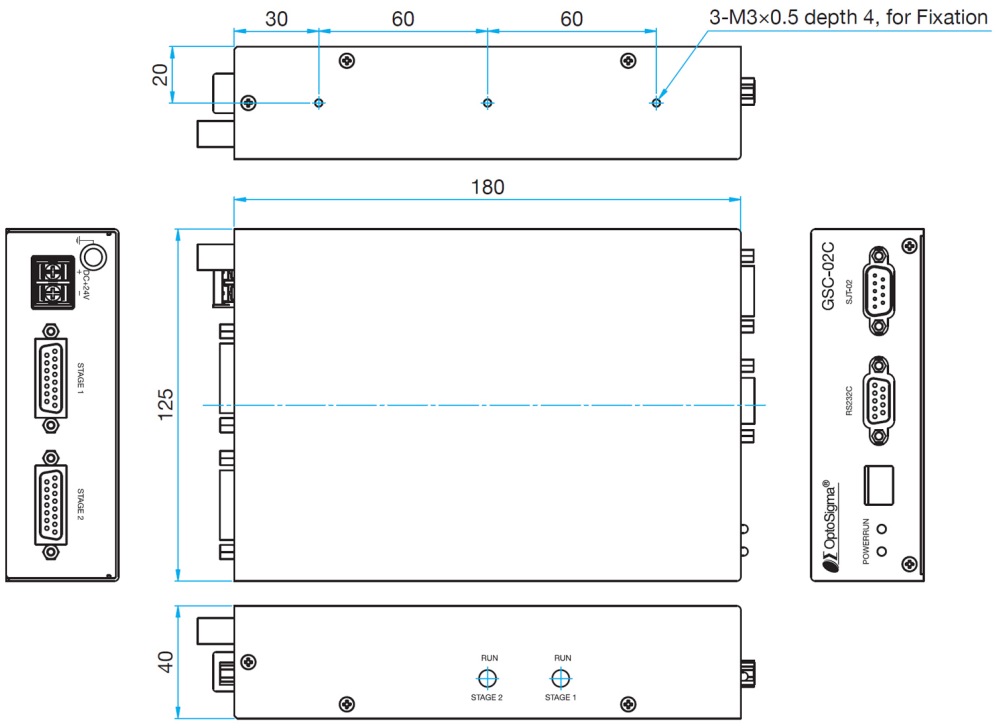
Attention

- The GSC-02A requires an external power supply (24VDC, 2A output). The AC-ADP-2427 (AC adapter) can be purchased with the controller or power can be provided by the end user.

Specifications	
Part Number	**GSC-02C**
Product Name	2 Axis Stage Controller
External Dimensions (W×H×D) [mm]	180×40×125
Weight [kg]	0.75

Outline Drawing

GSC-02C



HOURS
www.hours-shop.com

Specifications	
General Specifications	
Power Voltage	DC24V 2A
Power Consumption	48VA
Operating Temperature	5 - 40℃
Storage Temperature	-20 - 60℃
Ambient Humidity	20 - 80%RH (without condensation
Weight	0.75kg
External Dimensions (W×H×D)	180×40×125mm

Performance Specifications	
Max. Travel to Set	16,777,214 pulse
Max. Driving Speed	30,000pps
Min. Driving Speed	1pps
Acceleration/Deceleration Time	1 - 1,000ms
Micro-step (Max. Division)	2 (Full/Half step)
Driving Current	0.2 - 0.8A/phase

Primary Functions	
Controller Function	○
Number of Control Axes	2
Stored Program Control	△ (When using SJT-02)
Feedback Control	-

Control Command	
SYS Type A/B common	Machine Origin Return
	Relative Position Drive
	Absolute Position Drive
	Jog Operation
	Drive
	Deceleration stop/Emergency stop
	Theoretical Origin Setting
	Speed Setting
	Motor Free/Hold
	Status check 1
	Status check 2
	Internal information requests
	System switching
SYS Type B only	Direction of movement
	Input logic for the limit sensor
	Input logic for the ORG sensor
	Input logic for the NEAR sensor
	Method of returning to origin
	Switch number of steps
	Switch responses
	ORG speed settings

Interface	
GP-IB	-
RS232C	○
USB	-
Ethernet	-

I/O Specification	
Origin Sensor	○
Proximity Sensor	○
CW(+) Limit	○
CCW(-) Limit	○
General Purpose Input	-
General Purpose Output	-
Control Input	-
Control Output	-
Trigger Output	-

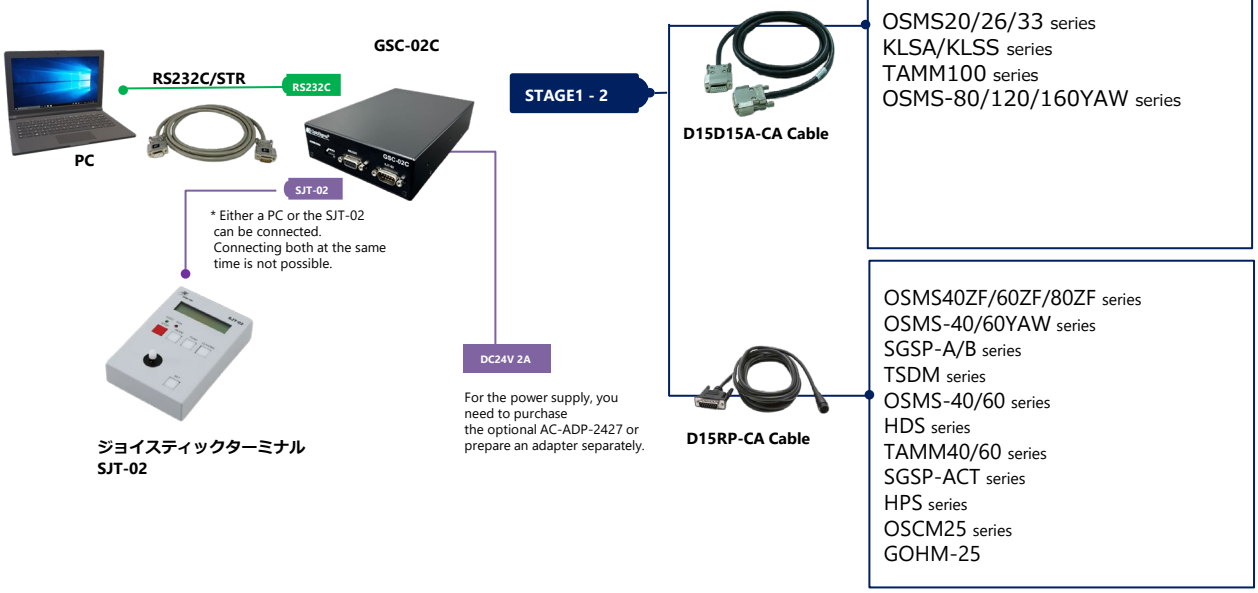
Optional	
CJ-200A	-
JS-301	-
JB-401	-
JD-101	-
SJT-02	○
MD-400	-

Differences between GSC-02A and GSC-02C

	Current Model	Successor Model
Part number	GSC-02A	**GSC-02C**
JP Yen [¥]	70,000	80,000
Stop current	Variable by volume	Fixed at 50%
Return data of "Q" command	"+" symbol before the positive coordinate value	No "+" symbol before the positive coordinate value
Connectable stages*	OSMS33、OSMS-80/120/160YAW、TAMM100、KLSA/KLS series series are unconnectable	OSMS33、OSMS-80/120/160YAW、TAMM100、KLSA/KLSS series series are connectable

* There is no difference in the connectable stage except for the stages in the above series.

■ **GSC-02C System Chart**



AC Adapter

CE RoHS Catalog Code W9313

Specifications	
Part Number	**AC-ADP-2427**
Product Name	AC Adapter
Power Voltage	24V 2.71A
Input Voltage	100 – 240V 50/60Hz
External Dimensions	115(L)x53(W)x38(H) mm
Weight [kg]	About 0.3