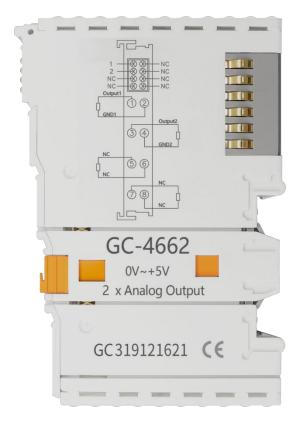
GC-4662

2-channel analog output module(0V~+5V) User manual



Document version: V3.01 (2020/12/21)

Contents

1. Function Introduction	. 4
1.1 Functional Overview	. 4
1.2 Performance characteristics	.4
1.2 Typical applications	
2. Equipment installation and use	5
2.1 Module fixing	
2.2 Wiring method	.5
2.3 System statusindicator	. 7
2.4 Use in combination with PLC400/510 series	. 7
2.5 Combination with GCAN-IO-8000 series equipment	.8
3. Technical specifications	. 9
4. Disclaimer	
5. Module selection table	11
Sales and service	13

1. Function Introduction

1.1 Functional Overview

GC-4662 (2-channel analog output module, $0V \sim +5V$) can be used to output signals in the range of $0V \sim +5V$. The terminal module can provide electrical isolation signals with a resolution of 16 bits for the processing layer. The GC-4662 module has two two-wire output terminals, which are particularly suitable for installation in a control cabinet to save space. The GC-4662 module has a common ground potential, and the power contacts are connected together. The reference ground at the output is the 0V power contact.

1.2 Performance characteristics

- The number of output points is 2;
- The signal voltage is $0V \sim +5V$;
- Power supply via GC-bus
- The load is greater than $5k\Omega$ (short circuit protection);
- Measurement error is less than $\pm 0.1\%$ (full scale);
- The measurement resolution is 16 bits;
- Conversion time is about 4ms
- Electrical isolation is 1500 Vrms;
- Current consumption is about 150mA;
- The bit width output in the process image is 2x 2 bytes;
- Configuration without address setting, through bus coupler or controller configuration;
- Applicable to all GCAN-PLC-400 series and GCAN-8000 series bus terminal modules;
- Working temperature range: -40°C~+85°C;
- Dimensions: length 100mm * width 69mm * height 12mm.

1.2 Typical applications

- Standardanalogsignalscanbeoutputexternallyaccordingto instructions;
- It can be used to adjust the opening of control equipment such as valves and gates;
- Connect to the bus coupler or controller to realize the transmission of analog signals.

2. Equipment installation and use

This chapter will explain in detail the installation method, wiring method, the meaning of the indicator light and the meaning of the interface of GC-4662 module.

2.1 Module fixing

The installation method of the GC-4662 module is shown in Figure 2.1. You need to use a flat-blade screwdriver for auxiliary installation.

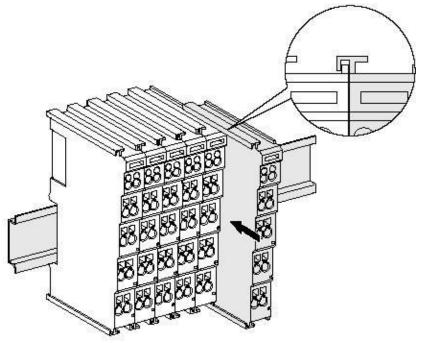


Figure 2.1 GC-4662 module installation

First, you need to install the fieldbus coupler on the rail, and then attach the GC-4662 module to the right of the fieldbus coupler or other modules to add this component. As shown in Figure 2.1, insert the GC-4662 module inwards along the slot until the latch snaps.

The GC-4662 module is powered by GC-bus, no additional power supply is required. You only need to connect the power supply to the bus coupler and connect the GC-4662 to the module composed of the bus coupler to realize the power supply of the GC-4662.

2.2 Wiring method

As shown in Figure 2.2, use a flat-blade screwdriver to insert it into the square hole and hold the screw in the square hole. Then insert the cable into the circular hole. After plugging in, pull out the screwdriver, and the cable can be firmly locked in the circular hole.

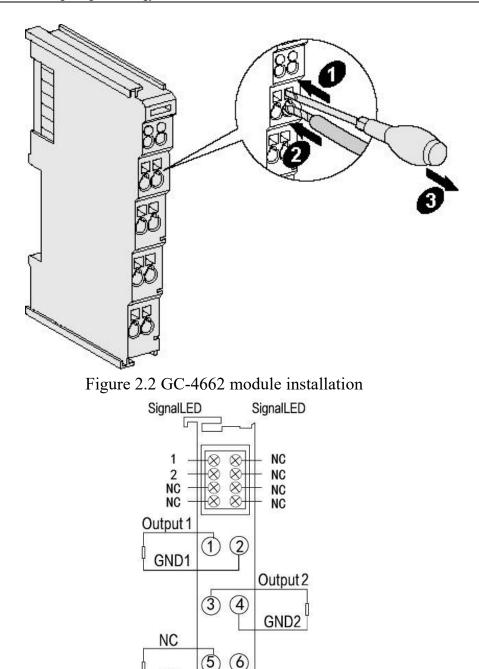


Figure 2.3 GC-4662 module terminal block

րլը

(8)

NC

NC

NC

The terminal block of GC-4662 module is shown in Figure 2.3. GC-4662 contains 2 sets of output points, and can connect up to 2 sets of analog signals. The serial numbers corresponding to the terminals and their meanings are shown in Table 2.1.

Terminal	Serial number	Meaning
Output1	1	Group 1 signal voltage output
GND1	2	Group 1 signal reference ground
Output2	3	Group 2 signal voltage output
GND2	4	Group 2 signal reference ground

Table 2.1 GC-4662 module indicator

2.3 System status indicator

The GC-4662 module has 4 operating indicators to indicate the operating status of the device. The specific indication function of the indicator light is shown in Table 2.2. When the indicator is on, the GC-4662 module status is shown in Table 2.3.

Indicator light	Colour	Indication status
RUN	green	Operating instructions

Table 2.2 GC-4662 module indicator

When the output signal of the GC-4662 module is activated, the operation indicator will light up.

Indicator light	Status	Indication status
RUN	Always on	Output signal activation
	not bright	Output signal is not activated

Table 2.3 GC-4662 module indicator status

2.4 Use in combination with PLC400/510 series

GCAN-PLC-400/510 supports programming in five languages. The following uses ST language as an example to introduce how to use GCAN-PLC-400 to program and write the status of the analog output of the GC-4662 module.

When the GC-4662 module performs ST programming definition, it is necessary to define the variable type, output signal position, start character, separator, etc. For example: "AO AT%Q0.0:INT;", where "0.0" represents the start address of the first channel, and each channel occupies 2 bytes. $0V\sim+5V$ corresponds to $0\sim65535$, so the start of the second channel The starting address is Q2.0. When the user uses more than one GC-4662 module, the second GC-4662 needs to be defined from "Q4.0", because each 4662 has 2 channels; "%" (percent sign) is the direct variable start symbol : ":" (semicolon) is a variable or type separator. Use the symbol variable AO to write the signed integer from the %Q0.0 address. AT stands for the address of variable access and the additional attributes of the variable

2.5 Combination with GCAN-IO-8000 series equipment

The status of the analog output is represented by two bytes. For example: GCAN-IO-8000 module node number is 1, if you want channel 1 of the first GC-4662 module to output +5V, and the output of other channels are all 0V, you need to write CAN to GCAN-IO-8000 module The data frame ID is 0x201, the data length (DLC) is 8, and the frame data is 0xFF, 0xFF, 0x00, 0x00, 0x00, 0x00, 0x00 data.

3. Technical specifications

2	
0V~+5V	
$>5k\Omega$ (Short circuit protection)	
Power supply via GC-bus	
16 bits	
4ms	
$\leq \pm 0.1\%$ (full scale)	
7 kV	
1500 Vrms	
150mA	
Output: 2 x2 bytes	
No address setting, configuration via bus	
coupler or controller	
Suitable for all GCAN-PLC-400 series,	
GCAN-8000 series bus terminal modules	
-40°C~+85°C	
95%RH, no condensation	
EN 55024:2011-09	
EN 55022:2011-12	
EN 60068-2-6/EN 60068-2-27/29	
EN 61000-6-2 /EN 61000-6-4	
IP 20	
100mm *69mm *12mm	
50g	

4. Disclaimer

Thank you for purchasing GCAN's GCAN series of hardware and software products. GCAN is a registered trademark of Shenyang Guangcheng Technology Co., Ltd. This product and manual are copyrighted by Guangcheng Technology. Without permission, it is not allowed to reproduce in any form. Before using, please read this statement carefully. Once used, it is deemed to be an endorsement and acceptance of the entire content of this statement. Please strictly abide by the manual, product description and related laws, regulations, policies and guidelines to install and use the product. In the process of using the product, the user promises to be responsible for his actions and all consequences arising therefrom. Guangcheng Technology will not be liable for any losses caused by improper use, installation, or modification by users.

The final interpretation right of the disclaimer belongs to Guangcheng Technology

5. Module selection table

GCAN-PLC-400 series products consist of a programmable main control module, several GC series IO modules and a terminal resistance module.

GC series IO modules currently include five categories: digital input, digital output, analog input, analog output, and communication extension. The specific selection table is shown in Table 5.1.

I/O	Туре	Characteristic	Signal	Channel
PLC Control module	GCAN-PLC-400	CPU:168M	-	-
	GCAN-PLC-510	CPU:400M	-	-
	GCAN-PLC-511	CPU:400M (2CAN)	-	-
	GC-1008	Digital input (PNP)	24V DC	8-channel
Digital input	GC-1018	Digital input (NPN)	24V DC	8-channel
	GC-1502	Counter (200kHz max)	-	2-channel
	GC-2008	Digital output (PNP)	24V DC	8-channel
Digital output	GC-2018	Digital output (NPN)	24V DC	8-channel
Digital output	GC-2204	relay output	-	4-channel
	GC-2302	PWM (20Hz~200kHz)	-	2-channel
	GC-3604	Voltage input, 16 bits	-5~+5V	4-channel
	GC-3624	Voltage input, 16 bits	10V~+10V	4-channel
	GC-3644	Current input, 16 bits	0-20mA	4-channel
	GC-3654	Current input, 16 bits	4-20mA	4-channel
Analog input	GC-3664	Voltage input, 16 bits	0~+5V	4-channel
	GC-3674	Voltage input, 16 bits	0~+10V	4-channel
	GC-3804	2-wire PT100, 16 bits	Thermal resistance	4-channel
	GC-3822	3-wire PT100, 16 bits	Thermal resistance	2-channel

	GC-3844/3854/3 864	K type / S type / T type thermocouple	Thermocoupl e	4-channel
Analog output	GC-4602	Voltage output, 16 bits	-5V~+5V	2-channel
	GC-4622	Voltage output, 16 bits	-10V~+10V	2-channel
	GC-4642	Current output, 16 bits	0-20mA	2-channel
	GC-4652	Current output, 16 bits	4-20mA	2-channel
	GC-4662	Voltage output, 16 bits	0~5V	2-channel
	GC-4672	Voltage output, 16 bits	0~10V	2-channel
	GC-4674	Voltage output, 12 bits	0~10V	4-channel
Special module	GC-6101	RS232/RS485 extension	-	-
	GC-6201	GPRS extension	-	-
	GC-6221	4G extension	-	-
	GC-6501	WiFi extension	-	-

Table 5.1 Selection table

Sales and service



Shenyang Guangcheng Technology Co., Ltd.

Address: No.135-21, Changqing Street, Hunnan, Shenyang, Liaoning, China. E-mail: sygckj@gmail.com Tel/ Whatsapp: +86 13644001762 Skype: live:sygckj WeChat: gckj777 Website: www1.gcanbox.com