

GC-3604/3624

4-channel analog input module(0~±5V/0~±10V)

User manual





Revision History

Version	Date	Reason
V1.00	2017/05/16	Create document
V2.01	2018/01/07	Modify device parameters



Contents

1 Introduction.....	4
1.1 Overview.....	4
1.2 Properties at a glance.....	4
1.3 Typical application.....	4
2 Installation and use.....	5
2.1 Module fixing.....	5
2.2 Wiring method.....	5
2.3 System status indicator.....	7
2.4 Combined with GCAN-PLC-400 series.....	错误！未定义书签。
2.5 Combined with GCAN-IO-8000 series.....	错误！未定义书签。
3 Technical Specifications.....	8



1 Introduction

1.1 Overview

The GC-3604/3624 module has integrated 4 analog input channels, which acquires analog signals in real time and transmits them to the GCAN-PLC coupler. This module can be used with any other GC Series IO module to capture and process analog data in industrial automation or distributed control systems.

1.2 Properties at a glance

- 4 input channels
- Acquisition voltage range: $0\sim\pm 5V/0\sim\pm 10V$
- Internal resistance: $>200\text{ k}\Omega$
- Resolution: 16 bits
- Conversion time: $<4\text{ms}$
- Electric isolation: 500Vrms
- Power Supply by GCAN-PLC-400 or GCAN-IO-8000
- Current consumption: 130mA
- The bit width input in the process image is $4*2$ bytes
- No address setting, configuration via bus coupler or controller
- Operating temperature: $-40^{\circ}\text{C}\sim+85^{\circ}\text{C}$
- Dimension: $100\text{mm}*69\text{mm}*12\text{mm}$

1.3 Typical application

- Acquisition of analog signals
- Access bus coupler or controller for analog signal transmission

2 Installation and use

This chapter will describe the installation method, wiring method, meaning of the indicator and meaning of the interface of the GC-3604/3624 module.

2.1 Module fixing

The installation method of GC-3604/3624 module as shown in Figure 2.1 and a flat-blade screwdriver is needed for auxiliary installation.

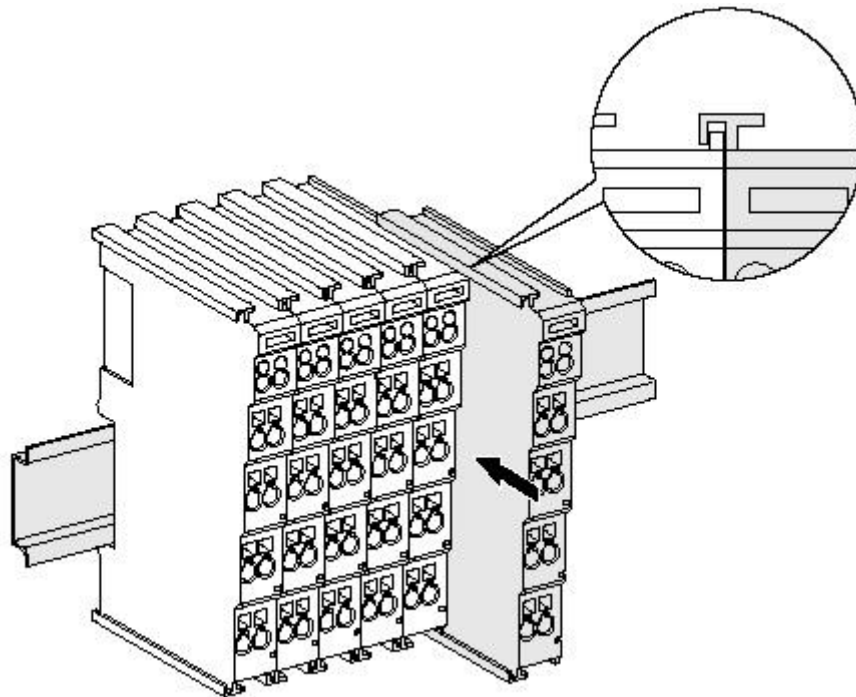


Figure 2.1 Installation of GC-3604/3624 module

First the user need to install the GCAN-PLC on the guide rail and plug the GC-3604/3624 along GCAN-PLC's right side until the lock is stuck. When remove the it, the user need to release the self-locking mechanism by pulling out the orange label.

2.2 Wiring method

The power wiring as shown in figure 2.2. First, use a flat-blade screwdriver to insert into the square hole, hold the top edge of the metal sheet in the square hole, and press toward the hole. Then, insert the wire into the hole. After plugging in, pull out the

screwdriver and the wire can be firmly locked in the hole.

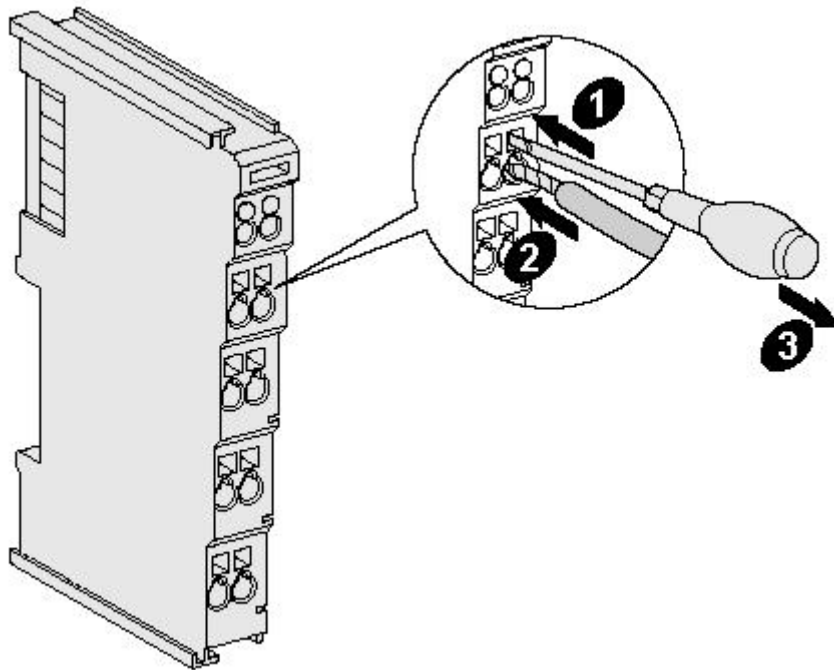


Figure 2.2 Wiring method of GC-3604/3624 module

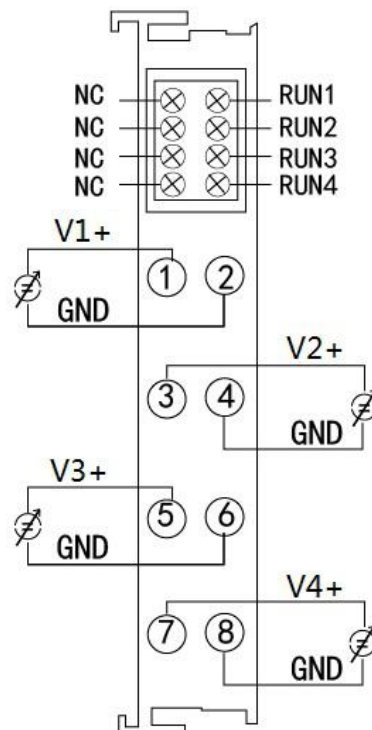


Figure 2.3 GC-3604/3624 module terminal definition



Terminal	No.	Definition
V1+	1	V1 signal voltage input
V1_GND	2	V1 signal reference
V2+	3	V2 signal voltage input
V2_GND	4	V2 signal reference
V3+	5	V3 signal voltage input
V3_GND	6	V3 signal reference
V4+	7	V4 signal voltage input
V4_GND	8	V4 signal reference

Table 2.1 GC-3604/3624 module indicator

2.3 System status indicator

The GC-3604/3624 module has 4 run indicators that 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 lit, the status of the GC-3604/3624 module is shown in Table 2.3.

Indicator	Color	Indication status
RUN	Green	Operating

Table 2.2 Indicator of GC-3604/3624 module

When the input signal of the GC-3604/3604 module is connected normally and the current is more than 0, the running indicator will light up.

Indicator	Status	Indication status
RUN	on	Connection correct and current value more than 0
	off	Connection error or current value is 0

Table 2.3 Indicator status of GC-3604/3624 module



3 Technical Specifications

Interface characteristics	
Number of inputs	4
Acquisition voltage range	0~±5V/0~±10V
Resolution	16 bite
Conversion time	< 4mA
Measuring error	< ±0.5%
Electrical isolation	500 V(GC-bus/ Signal voltage)
Bit width in the process image	4*2 input bytes
Installation position	In sequential order
Power supply	Powered by GCAN-PLC-400 or GCAN-IO-8000, current consumption 100mA
Environmental testing	
Operating temperature	-40℃~+85℃
Permissible relative humidity	95%RH, no condensation
EMC test	EN 55024:2011-09 EN 55022:2011-12
Vibration/shock resistance	EN 60068-2-6/EN 60068-2-27/29
EMC resistance burst/ESD	EN 61000-6-2 /EN 61000-6-4
Protection class	IP 20
Basic information	
Dimensions	100mm *69mm *12mm
Weight	50g



Sales and service

Shenyang Guangcheng Technology Co., Ltd.

Address: Industrial Design Center, No. 42 Chongshan
Middle Road, Huanggu District, Shenyang
City, Liaoning Province, China



QQ: 2881884588

E-mail: 2881884588@qq.com

Tel: +86-024-31230060

Website: www1.gcanbox.com

Sales and service Tel: +86-18309815706

After - sales service telephone Number: +86-13840170070

WeChat Number: 13840170070