

## Controller Model Description

Control controller currently has the following models:

Product number	I / O port type	IO points	Analog quantity	High speed output	High speed counting	power supply	Number of ladder steps
GC-043-16R	Relay	16	No	No	2 way / 80K	DC 24V	8K
GC-043-16T	Transistor	16	No	2 / 150K	2 way / 80K	DC 24V	8K
GC-043-16M	Relay + transistor	16	No	2 / 150K	2 way / 80K	DC 24V	8K
GC-043-16RA	Relay + analog quantity	16	2/16 / precision 0.1%	No	2 way / 80K	DC 24V	8K
GC-043-16TA	Transistor + analog quantity	16	2/16 / precision 0.1%	2 / 150K	2 way / 80K	DC 24V	8K
GC-043-16MA	Relay + transistor + analog quantity	16	2/16 / precision 0.1%	2 / 150K	2 way / 80K	DC 24V	8K

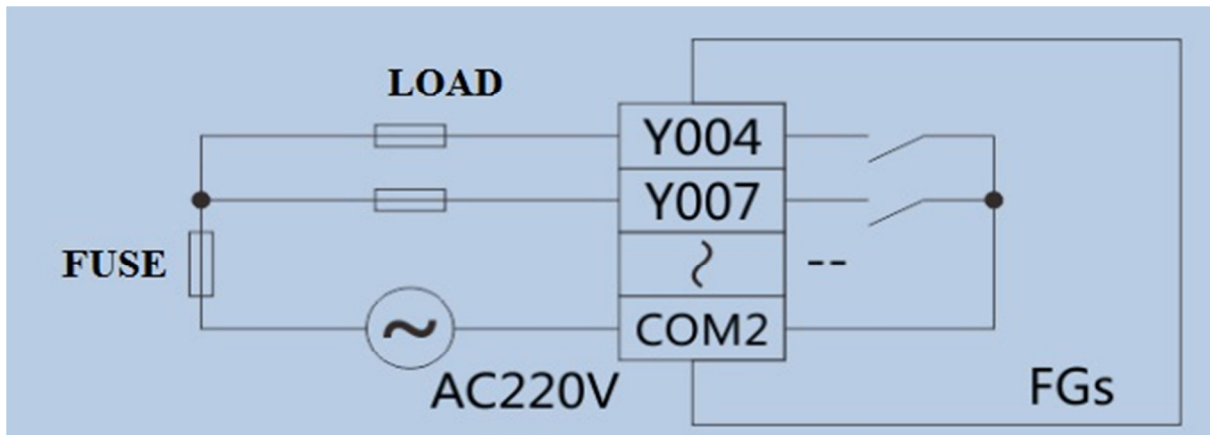
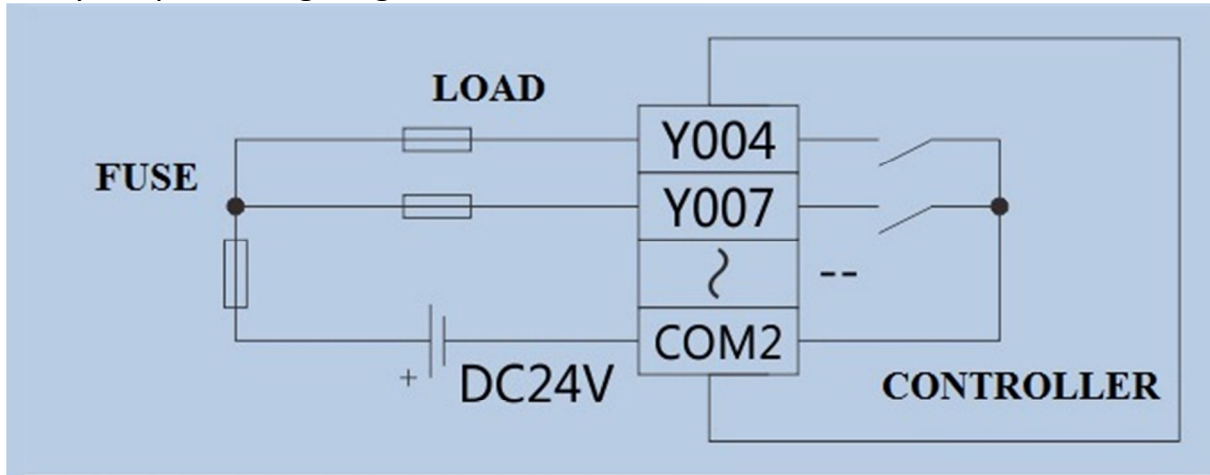
## Display controller

### Controller parameters

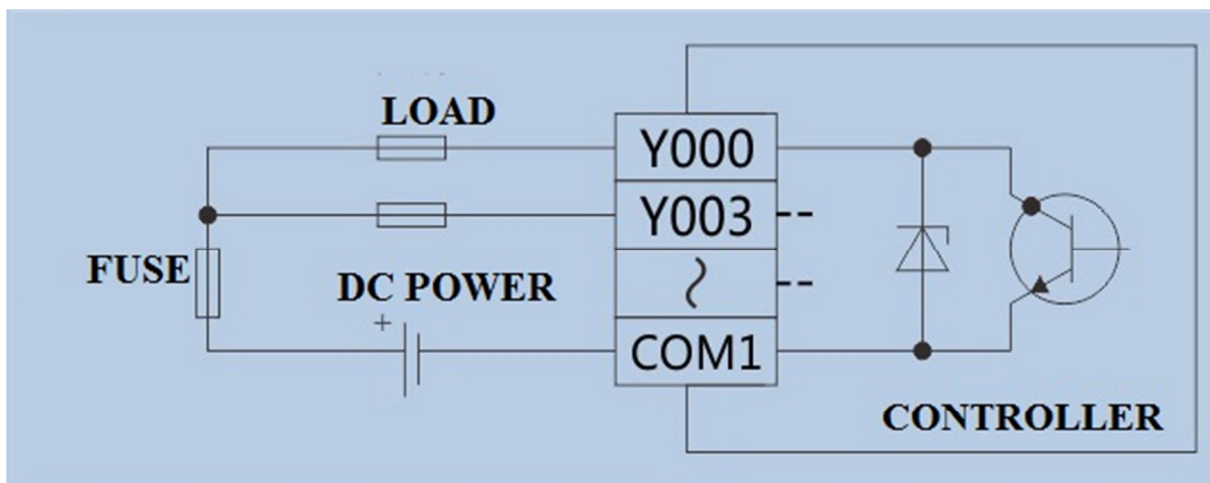
Model	GC-043
Display Size	4.3 Inch
Resolution(Pixels)	480*272
Touch	4 line High Precision touch Screen
Show Colour	262,144
Backlight Module	LED
Contrast	400:1
Brightness	400 (cd/m) <sup>2</sup>
SD Card	Not Support
RAM	DDR1 32M/Flash 128M
FCC Compatibility	Complies with FCC, Class A
Pressure Test	1000V AC, 1 Minute
CE Certification	Meet EN55002 and EN55004 Standards
Degree of Protection	Front Shell IP65
Shell Material	PC + ABS
Power Supply	24 V
Power Consumption	5W
Serial Interface	RS485
USB Download Port	Have
U Disk Mouth	No
Ethernet Port	No
CAN	No
WIFI	No
3G	No
Working Temperature	-10 ° C to 65 ° C
Working Environment Humidity	10-90%RH
Shock Degree	10-58HE (XYZ direction 2G / 30 minutes)
Physical Dimension	150x93x43.5mm
Hole Size	141x84mm

First, the controller output signal wiring diagram

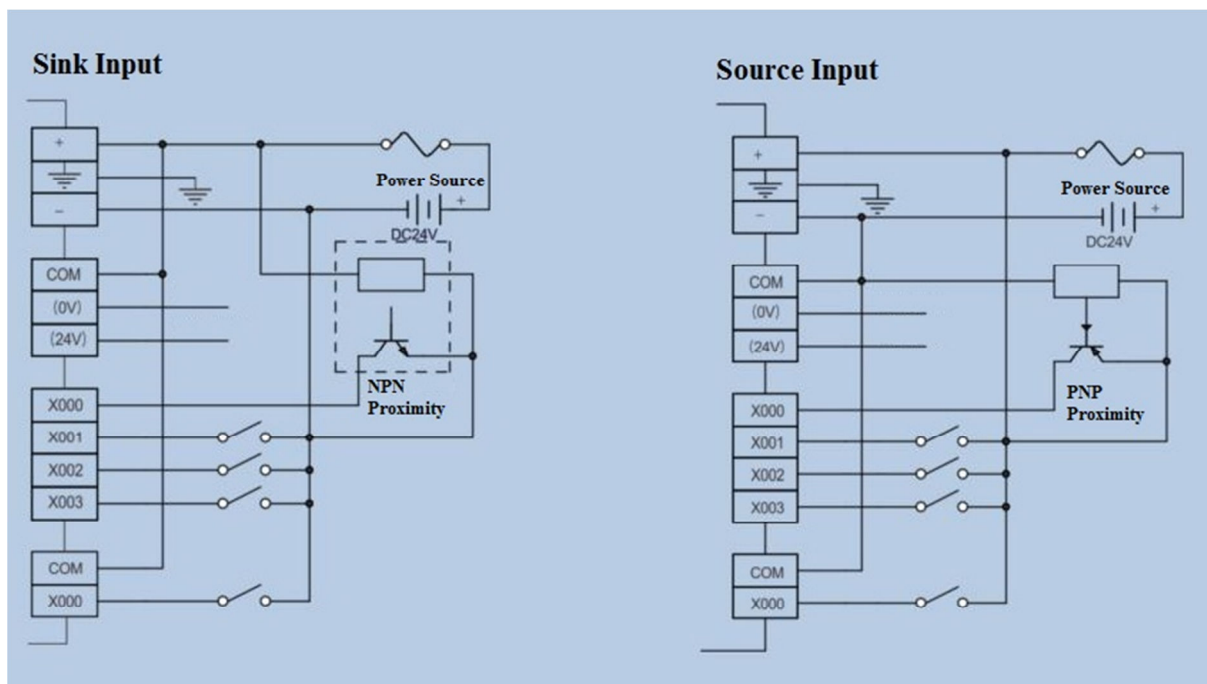
Relay Output Wiring Diagram



Transistor Output Wiring Diagram



## Controller Input Signal Wiring Diagram



## Power Demand

The controller can only use DC power supply, the specified current and voltage range of  $24\text{V} \pm 15\%$ , which ensures that most of the controller DC power supply system compatibility

The internal power regulator is made of switching power supply

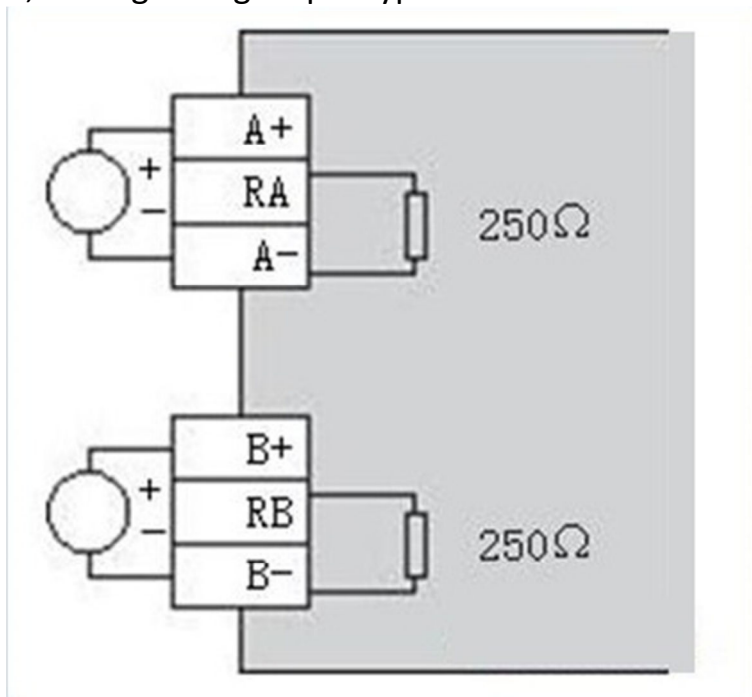
If the display does not appear after power-up, disconnect the power immediately and check that the wiring is correct and power up again

The mains supply must be properly isolated from the AC mains supply

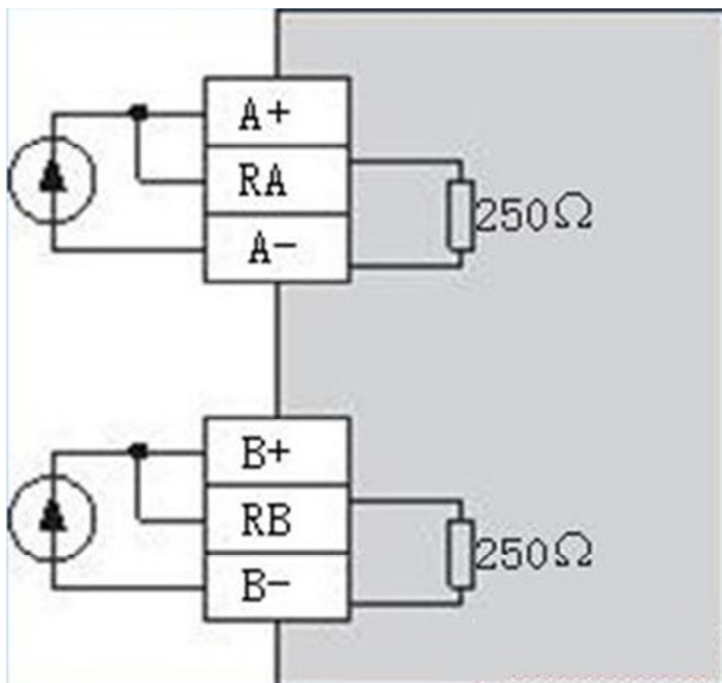
External power requirements below DC24V, the frequency range of 47-63HZ

## Display of Analog input specifications and external wiring examples

### 1, Analog voltage input type

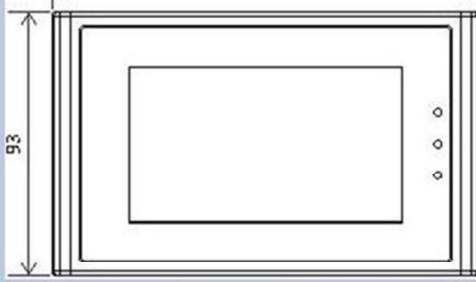


### 2, Analog current input type

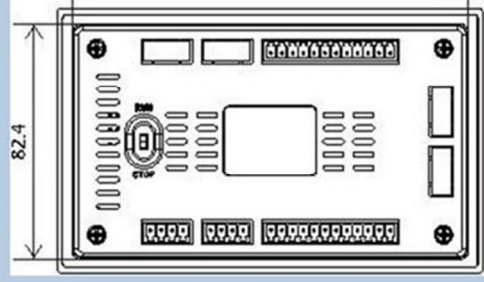


The input range is as follows:

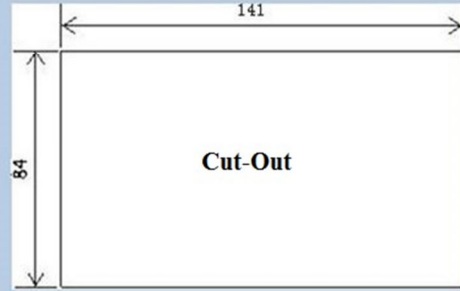
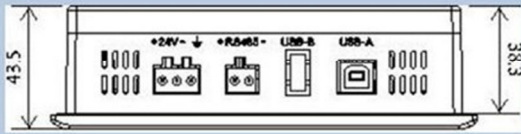
- Analog voltage input range: 0 ~ 5V
- Analog current input range: 4 ~ 20mA



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Cut-Out