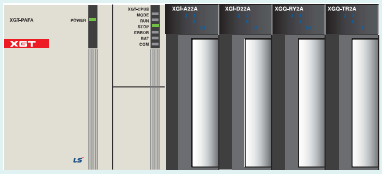
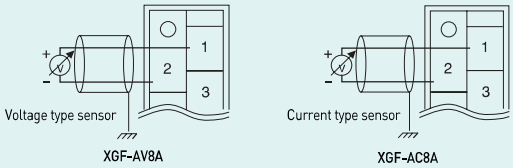
XGT Analog input module (Example)

System Configuration

This is a simple example to start Analog input module setting. For more details, refer to user's manual.

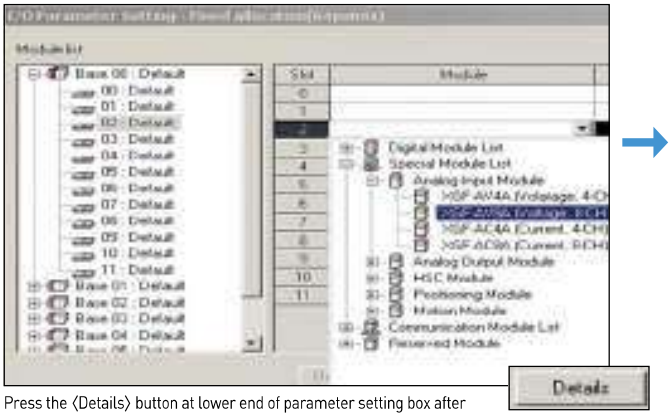


Wiring



Parameter setting

In the parameter setting box, select slot and analog module that you want to use.
(This example shows to select ' 0' channel of voltage input type.)



Press the 〈Details〉 button at lower end of parameter setting box after selecting the module.

You need to fill out each item suitable for your system.

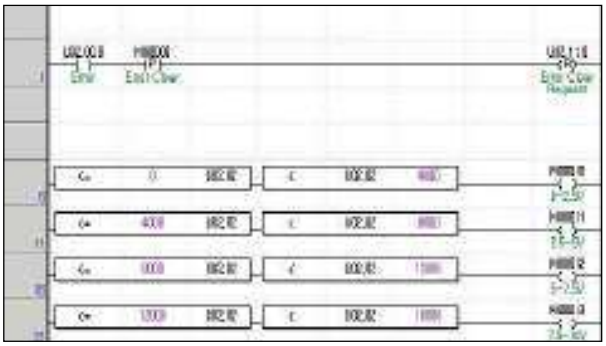
Programming

Create a program for A/D conversion (0~10V to 0~16,000).

Special devices for programming

Refer to user's manual for more details.
U02.0.0: Error
U02.11.0: Requesting error-clear
U02.02: Memory of channel A/D value

Uxy.aa.bb
x: Base number
y: Slot number
aa,bb: Refer to user's manual.



Analog output module

Features

- Fast conversion processing
- High resolution
- Setting and monitoring the special module parameter through XG5000
- Supporting 4 types of digital input data format

Specifications

Item	XGF-DV4A, XGF-DV8A, XGF-DV4S (Voltage output type)	XGF-DC4A, XGF-DC8A, XGF-DC4S (Current output type)
No. of output channel	XGF-DV4A/4S, XGF-DC4A/4S : 4 channels / XGF-DV8A, XGF-DC8A : 8 channels	
Analog output range	DC 1~5V, 0~5V	DC 4~20mA
	DC 0~10V, -10~10V	DC 0~20mA
	Selection of input range in the program or S/W package (Available to set per each channel)	

Digital input range

Analog output	Voltage type		1~5V	0~5V	0~10V	-10~10V
	Digital input	Unsigned value	0~16,000			
		Signed value	-8,000~8,000			
		Precise value	1,000~5,000	0~5,000	0~10,000	-10,000~10,000
		Percentile value	0~10,000			
Analog output	Current type		4~20mA		0~20mA	
	Digital input	Unsigned value	0~16,000			
		Signed value	-8,000~8,000			
		Precise value	4,000~20,000		0~20,000	
		Percentile value	0~10,000			

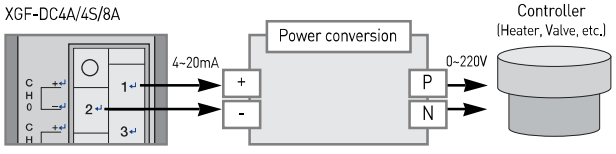
16-bit binary value: selection of input type by program or parameter (Available to be set per each channel)

Max. resolution				
	1/16,000 (Per each input range)			
1~5V	0.250mV	4~20mA		1.0μA
0~5V	0.3125mV			
0~10V	0.625mV	0~20mA		1.25μA
±10V	1.250mV			

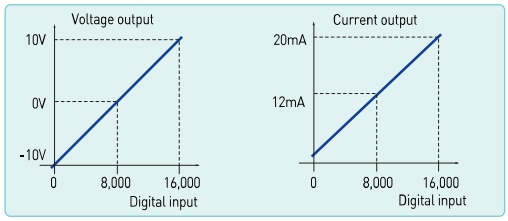
Item							
Accuracy	XGF-DV4A/8A, DC4A/8A : ±0.2% or less (Ambient temperature 25℃), ±0.3% or less (Range of operation temperature)						
	XGF-DV4S/DC4S : ±0.1% or less (Ambient temperature 25℃), temp coefficient: ±80ppm/℃						
Conversion speed	250μs/channel						
Max. absolute output	±15V			±24mA			
Insulation method	Photo-coupler insulation between terminal and power supply XGF-DV4A/8A, XGF-DC4A/8A: No insulation between channels XGF-DV4S, XGF-DC4S (Insulation type): Insulation between channels						
Connection terminal	18 point terminal						
No. of occupied points	Fixed type (Setting in basic parameter): assign 64 points						
	Variable type (Dissolving in basic parameter): assign 16 points						
Current consumption (mA)		DV4A	DV8A	DV4S	DC4A	DC8A	DC4S
	Internal	190	190	200	190	190	200
	External	140	180	150	210	300	220
Weight (Kg)	0.15						

Output wiring

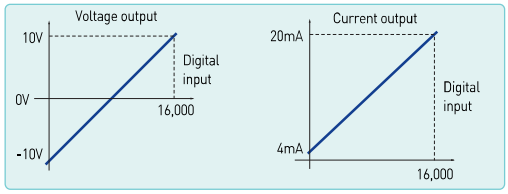
XGF-DV4A/4S/8A
XGF-DC4A/4S/8A



I/O conversion characteristics



Insulation type



SPECIAL