

Important Product Information

Analog output Modules

GFK-2766A Aug 2012

Warning!

Caution!

Before using the units

To use the units safely and effectively, please read this document and refer to GFK-2745 & network adapter user manuals for further details.

Warnings and Cautions

Warning notices are used in this publication to emphasize that hazardous voltages, currents, temperatures, or other conditions that could cause personal injury exist in this equipment or may be associated with its use. In situations where inattention could cause either personal injury or damage to equipment, a Warning notice is used.

- Installing or removing modules or wiring with power applied to the system or field wiring can cause an electrical arc. This can result in unexpected and potentially dangerous action by field devices. Arcing is an explosion risk in hazardous locations. Be sure that the area is non-hazardous or remove power appropriately before installing or removing modules or wiring.
- Potentially dangerous voltages are present on a module's terminals, even when system power is turned off. Field power must be turned off when installing or removing a Terminal Block assembly.
- Personnel who install, operate and maintain automation systems that contain these products must be trained and qualified to perform those functions.
- Overloading power modules or Network adapter can result into electric arc & damage to modules.

Caution notices are used where equipment might be damaged if care is not taken.

- Check the rated voltage and terminal array before wiring.
 - Ensure that specified environmental conditions are not exceeded. Avoid placing the module in direct sunlight.
- Review module specifications carefully, and ensure that input and output connections are made in accordance with the specifications.
- Use specified cables for wiring.
- Field Power Isolators must be used according to the requirements of the 5VDC/24VDC/48VDC or AC Voltage modules used in the system.
- If system power consumption exceeds the power limits, use system power expansion modules.
- System power and field power must be supplied from separate sources.

1. Output Module Specifications* ST-4112 ST-4212 ST-4114 ST-4274 ST-4491 Model ST-4214 ST-4474 Output Ch. No. 2 Channels 4 Channels 1 Channel 4~20mA 4~20mA 0~20mA 0~20mA 4~20mA 0~10V Analog Output **Terminal block** Sensor Connector Terminal block connector 12bit Resolution \pm 0.1% Full Scale @25°C Accuracy Max. 500Ω Min. 2KΩ Output Impedance 2ms / All Channel 4ms / All Channel 1.2ms / All Channel Update Time Module current 60mA/5Vdc 40mA/5Vdc 60mA/5Vdc consumption No common terminal in the 2Channels / 2COM 2Common 4Common, Field Power 0V is Common module, Field Power OV is Common (AGND) (Single common) /Module Common (AGND) Isolation Photo coupler Isolation 0°C to 55°C for UL applications ; -Surrounding Air 20°C to 60°C Temp./ 0°C to 55°C for UL applications ; 0°C to 60°C for non-UL applications ; Storage -40°C to 85°C for non-UL Ambient Temp. applications ; Storage -40°C to 85°C **Relative Humidity** 5% ~ 90%, without condensation

1. Output Module Specifications*								
Model	ST-4422	ST-4522	ST-4622	ST-4424	ST-4911			
Output Ch. No.		2 Channels			1 Channel			
Analog Output	0~10V	-10~10V	0~5V	0~10V	0~1A			
Resolution		12bit						
Accuracy		\pm 0.1% Full Scale @25°C						
Output Impedance		Min. 5KΩ						
Update Time		2ms / All Channel			1ms / All Channel			
Module current consumption		155mA/5Vdc			60mA/5Vdc			
Common	2Chan	2Channels / 2COM (Single common)			1Channel/ 2Common(Field Power 0V)			
Isolation		Photo coupler Isolation						
Surrounding Air Temp./ Ambient Temp.	0°C to 55°C	0°C to 55°C for UL applications ; 0°C to 60°C for non-UL applications ; Storage -40°C to 85°C						
Relative Humidity		5% ~ 90%, without condensation						

2. Release Information

Part Number	ST-4112-AA	ST-4212-AA	ST-4114-AA	ST-4214-AA	ST-4274-AA	ST-4474-AA	ST-4491-AA
HW Version	20.00	20.00	20.00	20.00	Under	Under	20.00
Firmware Revision	20.000	20.000	20.000	20.000	Development	Development	20.000

Part Number	ST-4422-AA	ST-4522-AA	ST-4622-AA	ST-4424-AA	ST-4911-AA
HW Version	20.00	20.00	20.00	20.00	20.00
Firmware Revision	20.000	20.000	20.000	20.000	20.000

3. Electronic Documentation

Manuals:

PACSystems RSTi I/O User Manual, GFK-2745 PACSystems RSTi Network Adapter User Manuals

The most recent user documents are available on the Support website: <u>http://www.ge-ip.com/support</u>



