



Important Product Information

Discrete Output Modules

GFK-2764A
Aug 2012

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.

Warning!

- 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.

Caution!

- 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*

Model	ST-2114	ST-2124	ST-221F	ST-222F	ST-2314	ST-2324	ST-2318	ST-2328
Points	4 Points		16Points		4Points		8Points	
Logic Type	TTL Inverting	TTL Non-Inverting	Negative	Positive	Negative	Positive	Negative	Positive
Special Fun.	-							
Allo. Voltage	5Vdc		24Vdc					
Volt. Range	4.5Vdc~5.5Vdc		11Vdc~28.8Vdc					
Loading Current	20mA/Point		0.5A/Point					
Module current consumption	50mA/5Vdc		80mA/5Vdc		45mA/5Vdc		60mA/5Vdc	
Common	4points/4COM (Single Common)		16Points/2COM (Single Common)		4points/4COM (Single Common)		8 Points/ External Common	
Surrounding Air Temp./ Ambient Temp.	-20°C to 55°C for UL applications ; -20°C to 60°C for non-UL applications ; Storage -40°C to 85°C							
Relative Humidity	5% ~ 90%, without condensation							

Model	ST-2414	ST-2424	ST-2514	ST-2524		
Points	4Points					
Logic Type	Negative	Positive	Negative	Positive		
Special Fun.	Diagnostics					
Allo. Voltage	24Vdc					
Volt. Range	11Vdc~28.8Vdc					
Loading Cur	0.5A/point		2.0A/Point			
Module current consumption	45mA/5Vdc					
Common	4 points/4COM(Single Common)					
Surrounding Air Temp./ Ambient Temp	-20°C to 55°C for UL applications ; -20°C to 60°C for non-UL applications ; Storage -40°C to 85°C					
Relative Humidity	5% ~ 90%, without condensation					

* Specifications and designs could be changed without advance notice

1. Output Module Specifications*

Model	ST-2742	ST-2744	ST-2748	ST-2792	ST-2852
Point NO.	2Points	4Points	8Points	2Points	
Logic Type	Relay				Triac
Special Fun.	-			Manual Logic	-
Allo. Voltage	24Vdc/240Vac				15~125Vac
Volt. Range	5~28.8Vdc/110~250Vac				15~132Vac
Loading Cur	2.0A/Point				0.5A/Point
Consum Cur	65mA/5Vdc	130mA/5Vdc	150mA/5Vdc	70mA/5Vdc	35mA/5Vdc
Common	1 Points/1COM				2Points/2COM
Surrounding Air Temp./ Ambient Temp	-20°C to 55°C for UL applications ; -20°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-2114-AA	ST-2124-AA	ST-221F-AA	ST-222F-AA	ST-2314-AA	ST-2324-AA	ST-2318-AA	ST-2328-AA
HW Version	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
Firmware Revision	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000

Part Number	ST-2414-AA	ST-2424-AA	ST-2514-AA	ST-2524-AA
HW Version	20.00	20.00	20.00	20.00
Firmware Revision	20.000	20.000	20.000	20.000

Part Number	ST-2742-AA	ST-2744-AA	ST-2748-AA	ST-2852-AA	ST-2792-AA
HW Version	20.00	20.00	20.00	20.00	Under development
Firmware Revision	20.000	20.000	20.000	20.000	

3. Electronic Documentation

Manuals:

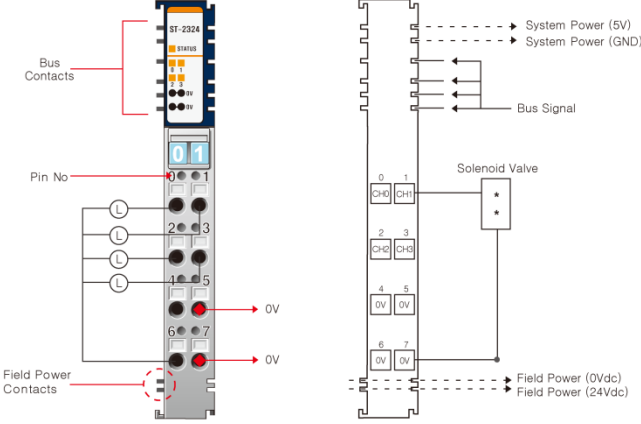
PACSystems RSTi I/O User Manual, GFK-2745

PACSystems RSTi Network Adapter User Manuals

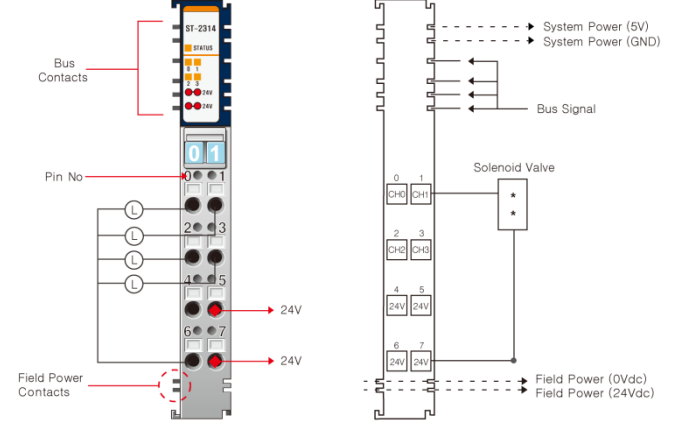
The most recent user documents are available on the Support website: <http://www.ge-ip.com/support>

4. Output wiring Diagrams

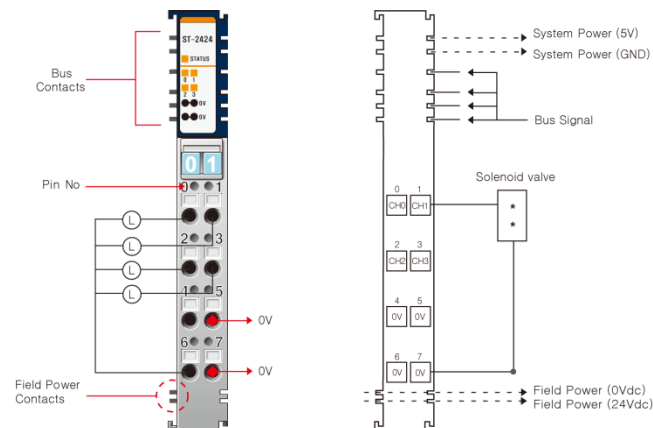
ST-2324 : 4 points DC 24V Positive Logic(0.5A)



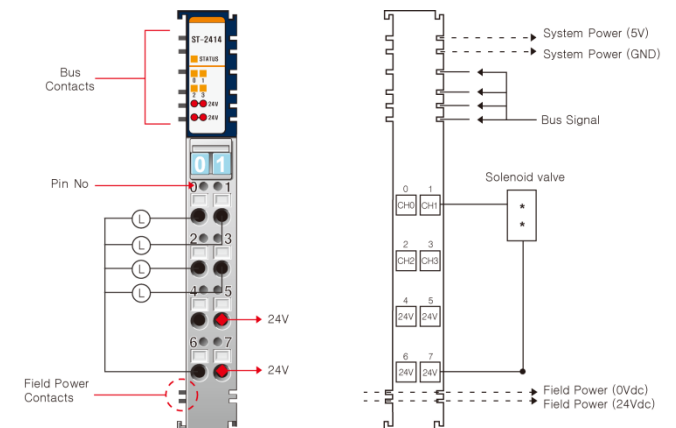
ST-2314 : 4 points DC 24V Negative Logic(0.5A)



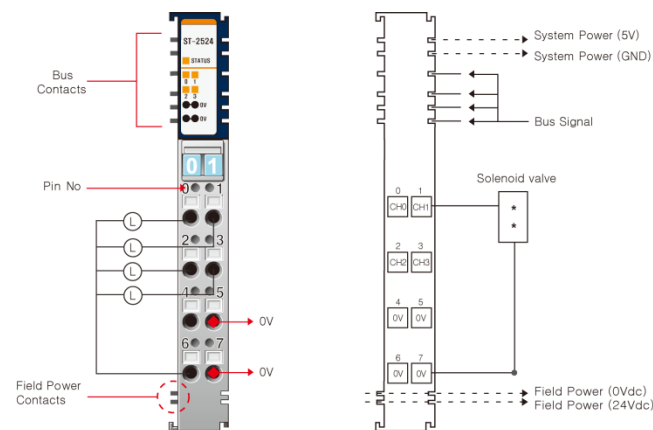
ST-2424 : 4 points DC 24V Positive Logic(0.5A,Diagnostics)



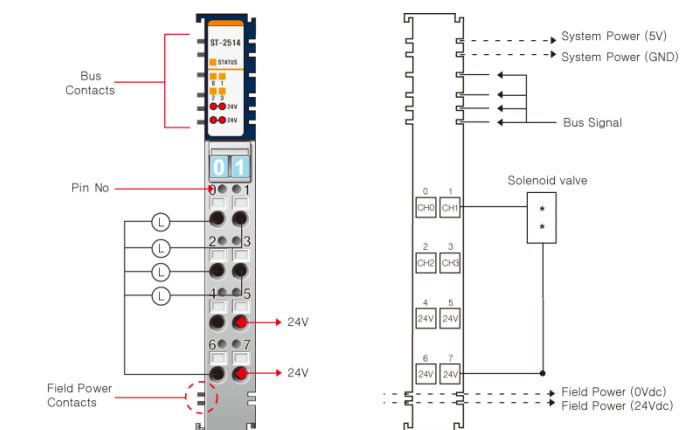
ST-2414 : 4 points DC 24V Negative Logic(0.5A,Diagnostics)



ST-2524 : 4 points DC 24V Positive Logic(2A,Diagnostics)

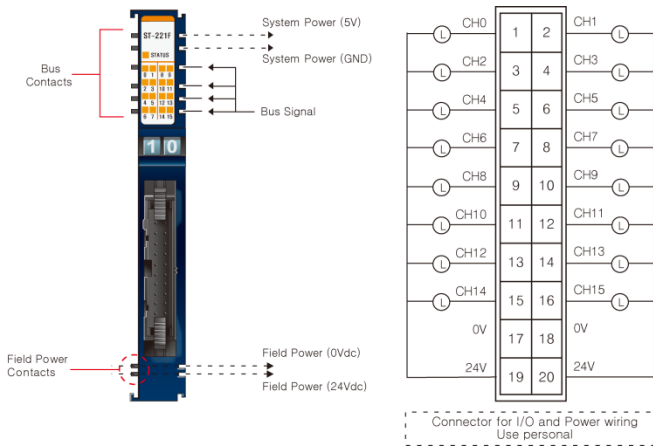


ST-2514 : 4 points DC 24V Negative Logic(2A,Diagnostics)

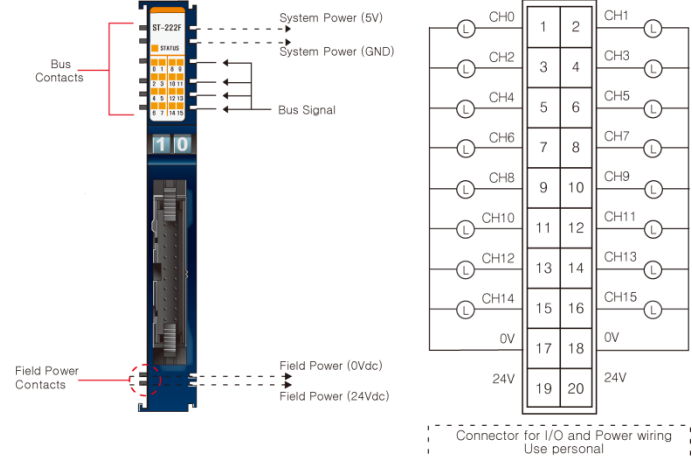


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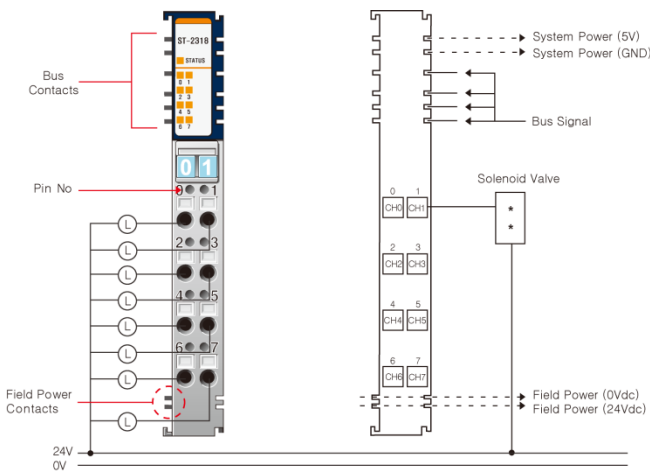
ST-221F : 16 points DC 24V Negative Logic



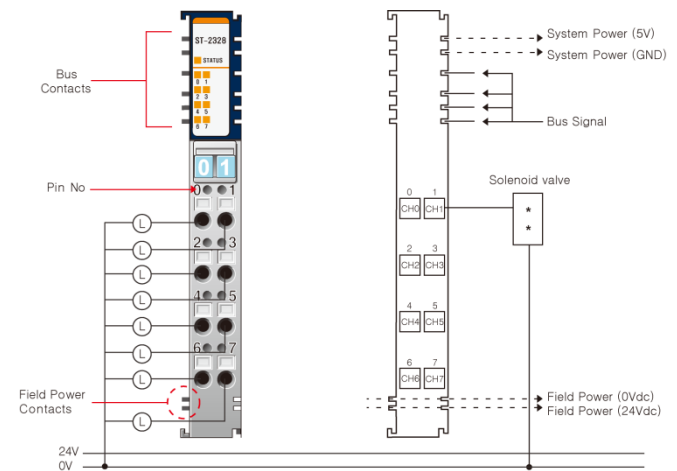
ST-222F : 16 points DC 24V Positive Logic



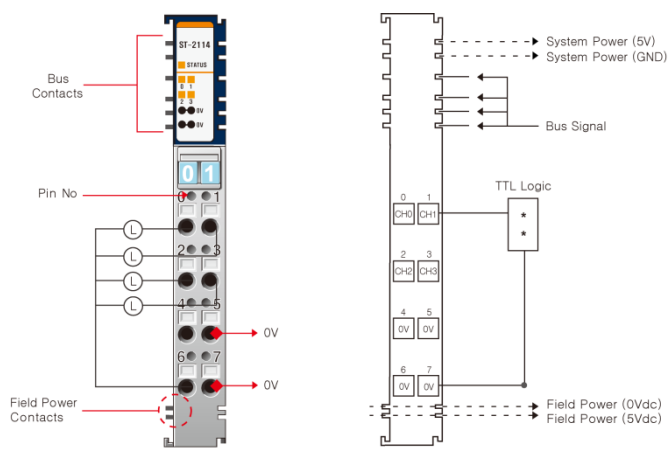
ST-2318 : 8 points DC 24V Negative Logic



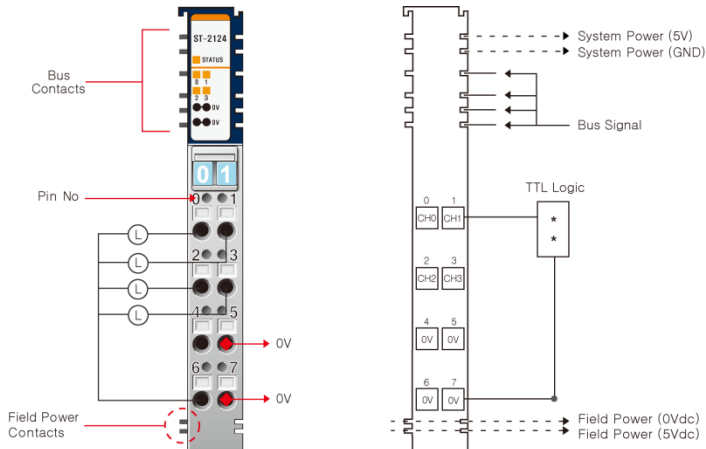
ST-2328 : 8 points DC 24V Positive Logic



ST-2114 : 4 points DC 5V TTL Inverting Logic

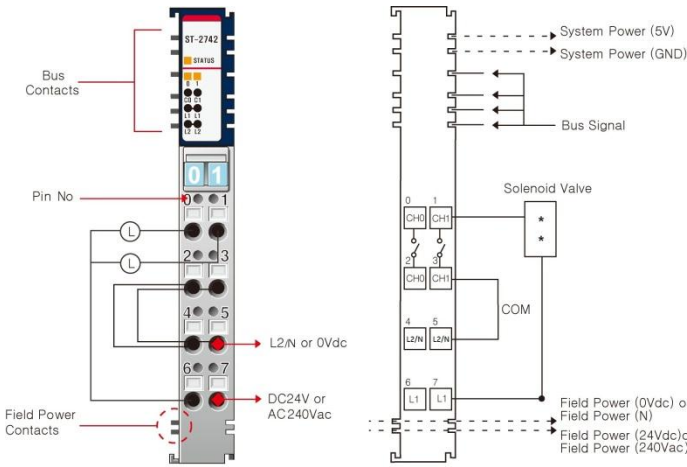


ST-2124 : 4 points DC 5V TTL Non-Inverting Logic

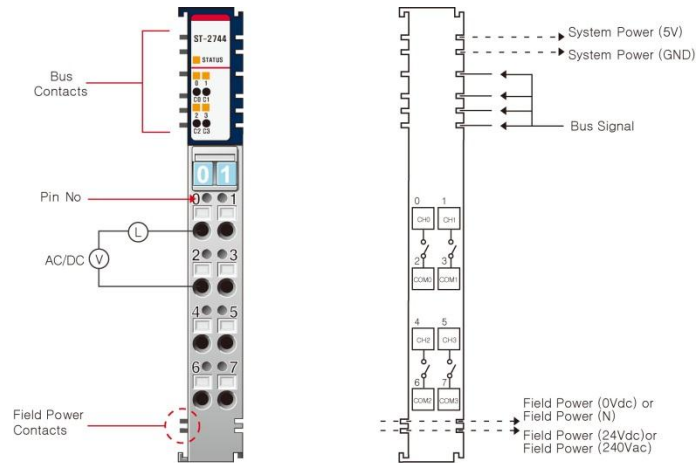


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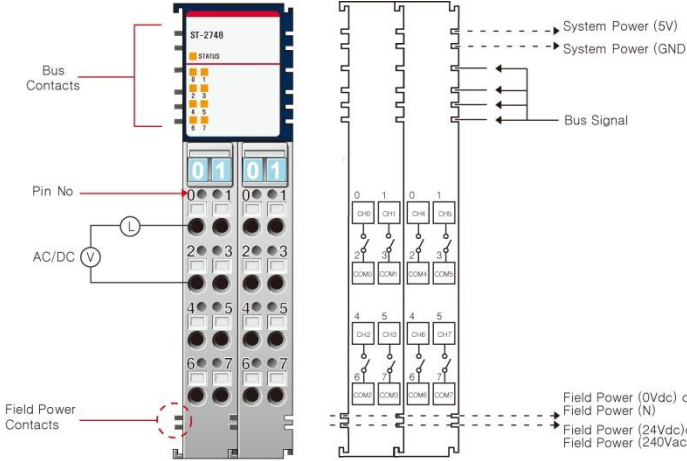
ST-2742 : 2 point Relay Logic



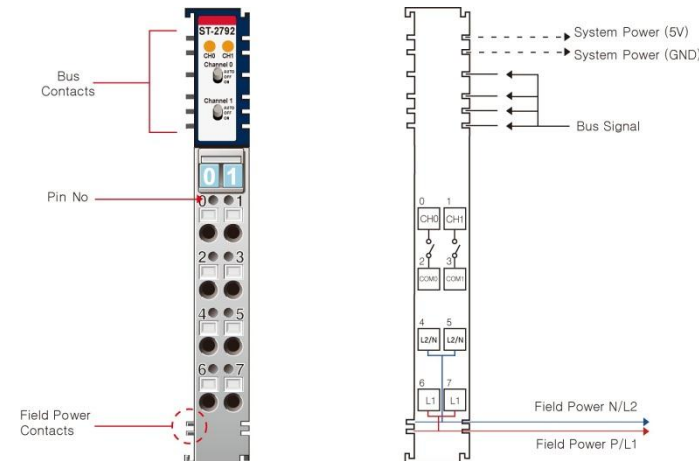
ST-2744 : 4 point Relay Logic



ST-2748 : 8 point Relay Logic



ST-2792 : 2 point Manual/Auto Relay Logic



ST-2852 : 2 point Triac Logic

