Important Product Information



Analog Input Modules

GFK-2765A Aug 2012

Warning!

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
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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.

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. Input Module Specifications*

Model	ST-3114	ST-3134	ST-3214	ST-3234	ST-3118	ST-3218	ST-3274							
Channel		4 Cho	annel			8 Channel	4 Channel							
Input Range	0 ~ 2	0mA	4 ~ 2	0mA	0 ~ 20mA	4 ~ 20mA	0~10V	4 ~ 20mA						
Туре		Current												
Resolution	12bit	12bit												
connector		Sensor Connector												
Accuracy		±0.1% Full Scale @25°C, ±0.3% Full Scale @ 0°C, 60°C												
Input Impedance		120Ω												
Update Time		4ms / All channel												
Module current consumption		40mA/5Vdc												
Common		module, (AGND)												
Isolation				Photo c	coupler isolatio	on								
Surrounding Air Temp./ Ambient Temp		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%, v	vithout conde	nsation								

	1. Input Module Specifications*													
Model	ST-3424	ST-3444	ST-3524	ST-3544	ST-3624	ST-3644	ST-3702	ST-3802	ST-3704	ST-3708	ST-3804	ST-3808		
Channel			4 Channel				2 Cho	2 Channel		8Ch	4Ch	8Ch		
Input Range	0~10V -10V~10V 0~5V						RTD	тс	RTD			тс		
Туре		1	Vo	ltage		1	Ref1*	Ref2*	Re	Ref1* Ref2*				
Resolution	12bit	12bit 14bit 12bit 14bit 12bit 14bit ±0.1°C/ F, 10mΩ												
Special Function		- Diagnostic												
Accuracy	±0.1% Full Scale @25°C, ±0.3% Full Scale @ 0°C, 60°C													
Input Impedance			50	00ΚΩ			-							
Update Time	4ms / All channel						200msec / All 30msec/1Channel when Normal Conversion					ormal		
Module current consumption	165mA/5 Vdc	165mA/5 170mA/5Vdc Vdc						/5Vdc	100mA/ 5Vdc	110mA/ 5Vdc	120mA/ 5Vdc	140mA/ 5Vdc		
Common		4 Channels / 2COM (Single Common) 2 Channels/2COM (Single Common) 4 Common/Module												
Isolation						Photo co	upler isolat	ion						
Surrounding Air Temp./ Ambient Temp	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%, wit	thout cond	ensation						
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Ref 1*	Sensor type: PT50, PT100, PT200, PT500, PT1000, JPT100, JPT200, JPT500, JPT1000, NI100, NI200, NI500, NI1000, NI120 CU10, Resistance 100mQ/Bit, 10mQ/Bit, 20mQ/Bit,
Ref 2*	Sensor type: Type K/J/T/B/R/S/E/N/L/U/C/D ; mV Input :10µV/Bit, 1µV/Bit, 2µV/Bit

2.	Releas	se Infor	mation
	1101000		

Part Numb	er S	Г-3114	4-AA .	ST-3134-AA	ST-3214	4-AA	ST-	3234-AA	ST-3118-AA		ST-3218-AA		ST-3428-	AA ST-		3274-AA
HW Versio	n	20.0	0	20.00	20.0	0		20.00	20.00	0		20.00	20.00	1		Inder
Firmware Revision	9	20.00	00	20.000	20.00	00	ź	20.000	20.00	0	ź	20.000	20.000)	deve	elopment
Part Number	ST-342 AA	24- ST	-3444- AA	ST-3524- AA	ST-3544- AA	ST-362 AA	24-	ST-3644- AA	ST-3702- AA	ST-38 AA	02-	ST-3704- AA	ST-3708- AA	ST-3	804- A	ST-3808- AA
HW Version	20.00) 2	20.00	20.00	20.00	20.00		20.00	20.00	20.00		20.00	20.00	20.00		20.00
Firmware Revision	20.00	0 2	0.000	20.000	20.000	20.00	00	20.000	20.000	20.0	00	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>





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