GE PACSYSTEMS RX3I

Product Data Sheet

IC695ALG628

8-channel HART analog input module

INPUT TOPOLOGY	CURRENT RANGES	VOLTAGE RANGES	A/D RESOLUTION
8 single-ended or 4 differential channels	**0-20 mA, 4-20 mA or +/-20 mA**	**+/-10 V, 0-10 V, +/-5 V, 0-5 V or 1-5 V**	**24-bit**

GE IC695ALG628 is an RX3i non-isolated analog input module supporting eight single-ended or four differential voltage/current channels. Each channel also supports HART version 5.0 communication when configured for the 4-20 mA range.

01 TECHNICAL DATA

Input topology	8 single-ended or 4 differential channels
Current ranges	0-20 mA, 4-20 mA or +/-20 mA
Voltage ranges	+/-10 V, 0-10 V, +/-5 V, 0-5 V or 1-5 V
A/D resolution	24-bit
Data representation	IEEE 32-bit floating point or 16-bit integer in a 32-bit field
HART protocol	Version 5.0; use 4-20 mA range
Selectable filters	8, 12, 16, 40, 200 or 500 Hz
Voltage input impedance	Greater than 100 kohm
Current input resistance	249 ohm +/-1%
Open-circuit detection	1 second maximum

Emerson PACSystems GFK-2372V, December 2022; ALG628 specifications, wiring and application restrictions.

02 ADDITIONAL PRODUCT DATA

Continuous overvoltage	+/-60 V DC maximum
Continuous overcurrent	+/-28 mA maximum
5 V backplane current	260 mA maximum per GFK-2372V
3.3 V backplane current	200 mA maximum per GFK-2372V
Terminal-to-backplane isolation	250 V AC continuous; 1500 V AC for 1 minute

03 PRODUCT FUNCTION

The 24-bit converter supplies configurable floating-point or integer data. Software settings provide filtering, scaling, alarm limits and diagnostic reporting. The module fits an RX3i Universal Backplane and uses a separately specified removable terminal block.

04 SYSTEM COMPATIBILITY

Select 4-20 mA for every HART-enabled channel. Other voltage/current ranges support analog acquisition but do not establish HART operation. Budget the 5 V and 3.3 V demands against the installed hardware revision; GFK-2372V lists 260 mA and 200 mA maximum respectively.

05 REFERENCE

Emerson PACSystems GFK-2372V, December 2022; ALG628 specifications, wiring and application restrictions.

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