

PAC8000

8102-HO-IP Analog Output Module

Eight-Channel 4–20mA with HART

GFK-2662A
August 2011

Firmware release 2.28 resolves the issues listed below.

Product Documentation

8000 System Specification Data Sheet

PAC8000 SafetyNet Data Sheet

8000 I/O – 2/2 I/O Modules, General Purpose and 2/2 Applications Including SafetyNet, Instruction Manual - INM8100

8000 I/O – 2x I/O Modules (2/1 applications) Instruction Manual – INM8200

System Specifier's Guide – SSG8002

Product documentation can be downloaded from <http://support.ge-ip.com>.

Release Information

Replaces

Release 2.26.

Updates

Modules cannot be field-upgraded. If the problems listed below are observed in earlier versions of the module, contact Customer Service.

Compatibility

PAC8000 Controller firmware version 2.06 or later is recommended for use with the 8102-HO-IP.

Problems Resolved by Release 2.28

Subject	Description
Channel LEDs not functioning properly in unconfigured 8102/8104 module	If the module is not configured, all channels are in deactivated state. With the module firmware 2.26, the module did not turn OFF channel LEDs for deactivated channels with open circuits. Module firmware is updated to turn OFF LEDs for deactivated channels with open circuits.
An 8102-HO-IP module with HART connected may go into fail state	In the presence of noise and when HART communication is enabled, the module may go to fail mode (with log showing "CRC error in configuration"). Release 2.28 version of the firmware fixes the failures caused by "CRC error in configuration."
HART communication fixes	The 2.28 version of firmware detects and handles the responses from the field to indicate busy HART device. Also this version of firmware correctly handles the invalid lengths of responses from field device for commands 3 and 33.

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Compliance Information

For detailed installation and operating procedures, refer to the user manual for the 8102-HO-IP module.

Hazardous Locations

- Factory Mutual, Class 1, Div 2, Groups A, B, C, D hazardous locations with Temperature Code T4
Refer to Control Drawings SCI-701 and SCI-845.
- ATEX II 3 G, Ex nL IIC T4
- CSA, Class 1, Div 2, Groups A, B, C, D hazardous locations with Non-Incendive field terminals.
Temperature Code T4
Refer to Control Drawings SCI-702 and SCI-846.

Applicable Standards

- FM Approvals
Standards: - FM 3600, FM 3611, FM 3810
- ATEX Approvals
Standards: - EN 60079-15:2005
- CSA Approvals
Standards: - C22.2 No. 0-M91 (R 2006), C22.2 No. 142-M1987 (R 2004), C22.2 No. 213-M1987 (R 2008)