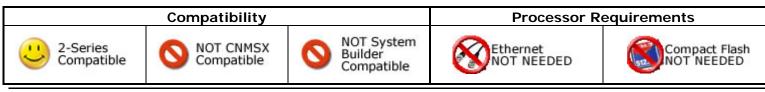# GE NX587e Zone Status
Module Application Guide

Description

This module is used in conjunction with the NX587e Interface module to provide detailed status about a particular zone.

Supported Processors

This module is supported on any 2-series or 3 series processor with a bidirectional RS-232 port. This module is not supported on systems utilizing one-way serial.

This module is only supported when used with the GE NX587e Interface Module. It will not function as a stand alone module.

Compatibility			Processor Requirements	
2-Series Compatible	NOT CNMSX Compatible	NOT System Builder Compatible	Ethernet NOT NEEDED	Compact Flash NOT NEEDED

Connection

Connect the zoneX_status$ output of the Interface Module to this module's zone_staus_in$ input.

Status Only

This module provides status of the corresponding zone; the NX587e does not provide a method of directly controlling an individual zone or partition; all zone controls are accomplished using keypad functions as if you were using a native NX148E keypad.

Particular consideration should be given to the "alarm memory" flag: It is not possible to manually reset the "alarm_memory" flag attached to a zone and it is not clear when the alarm system automatically resets this flag.

Module Synchronization

The NX-587E reports selected events in an unsolicited manner, that is polling is not required during normal use. When the program reboots or if the NX-587E or alarm system is disconnected or looses power, it is necessary to poll the NX-587E (using the NX587 interface module) to obtain the current system status.

If the NX-587E is connected directly to the processor or if the cable connecting the NX-587E to the processor, connecting the "CTS" digital signal from the serial port to the [enable_module_(reboot_finished)] digital input on the module will automatically resynchronize the module to the current state of the NX-587E if it were to become disconnected or if power was cycled.

Signal and Parameter Descriptions

Bracketed signals such as "[signal_name]" are optional signals

DIGITAL INPUTS
This module does not utilize any digital inputs

ANALOG INPUTS
This module does not utilize any analog inputs.

SERIAL INPUTS
zone_status_in$ .... Connect to zoneX_status$ output of NX587e interface module.

DIGITAL OUTPUTS
[zone_faulted_fb] .... High when the security system indicates that the zone is faulted. Generally, this indicates an open door, motion detected, etc.

[zone_alarm_memory_fb] .... High when the security system indicates that an alarm has previously occurred on the zone. Please see application note supra.

[zone_tamper_fb] .... High when the zone is in the tampered state

[zone_trouble_fb] .... High when the zone is in the trouble state

[zone_bypass_fb] .... High when the zone has been bypassed

[zone_bypass_memory_fb] .... High when the zone was bypassed during the last arming

[zone_inhibit_fb] .... This status is not well defined by the protocol documentation.

[zone_low_battery_fb] .... High when a wireless zone is reporting a low battery condition.

[zone_lost_fb] .... High when a wireless zone is no longer communicating with the security system.

ANALOG OUTPUTS
This module does not utilize any analog outputs.

SERIAL OUTPUTS
zone_name$. .... The zone name as configured by the security system, a maximum of 16 characters.

PARAMETERS
This module does not utilize any parameters.

Support

This module is supported by ControlWorks Consulting, LLC. Should you need support for this module please email support@controlworks.com or call us at 440-449-1100. ControlWorks normal office hours are 9 AM to 5 PM Eastern, Monday through Friday, excluding holidays.

Before calling for support, please ensure that you have loaded and tested operation using the included demonstration program and touchpanel(s) to ensure that you understand the correct operation of the module. It may be difficult for ControlWorks to provide support until the demonstration program is loaded.

Updates, when available, are automatically distributed via Email notification to the address entered when the module was purchased. In addition, updates may be obtained using your username and password at http://www.controlworks.com/customerlogin.aspx .

Distribution Package Contents

The distribution package for this module should include:

GE_NX587E_Interface_v2.umc .... Crestron User Module for keypad control. Also distributes data to the partition module and zone module.
GE_NX587E_Partition_Status_v2.umc .... Crestron User Module partition status
GE_NX587E_Zone_Status_v2.umc .... Crestron User Module zone status
GE_nx587_demo_xpanel_v2.vtp .... Demo XPANEL
GE_nx587_demo_program_v2.smw .... Demo program for PRO2 processor
GE_NX587e_Interface_Module_Help_v2.pdf .... Help file for interface module
GE_NX587e_Partition_Status_Module_Help_v2.pdf........ Help file for partition status module
GE_NX587e_Zone_Status_Module_Help_v2.pdf .... Help file for zone status module

Revision History

V1 lincoln@controlworks.com 2010.09.27
    -Initial release
V2 caleb@controlworks.com 2011.12.13
    No changes to this module in v2.

Development Environment

This module version was developed on the following hardware and software. Different versions of hardware or software may or may not operate properly. If you have questions, please contact us.

GE Hardware	Hardware Version
NX-587E	Unknown
Crestron Hardware	**Firmware Version**
Crestron MC3 Processor	1.002.0000
Crestron PRO2 Processor	4.003.0010
Software	**Software Version**
Crestron SIMPL Windows	3.02.14
Crestron Vision Tools Pro-e	4.4.28
Crestron Database	28.05.017.00
Device Database	17.05.009.00
Crestron Device Library	760

ControlWorks Consulting, LLC Module License Agreement

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Provision of Support

We provide limited levels of technical support only for the most recent version of the Module as determined by Us. We do not provide support for previous version of the module, modifications to the module not made by Us, to persons who have not purchased the module from Us. In addition, we may decline to provide support if the Demo Program has not been utilized. We may withdraw a module from sale and discontinue providing support at any time and for any reason, including, for example, if the equipment for which the Module is written is discontinued or substantially modified. The remainder of your rights and obligations pursuant to this license will not be affected should ControlWorks discontinue support for a module.

Modification of Software

You may not decrypt (if encrypted), reverse engineer, modify, translate, disassemble, or de-compile the Module in whole or part. You may modify the Demo Program. In no event will ControlWorks Consulting, LLC be liable for direct, indirect, incidental or consequential damages resulting from You modifying the Software in any manner.

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