Integration Note

Manufacturer:	GE
Model Number(s):	**Concord 4 (600-1040)**
Core Module Version:	4.0 (Build 1463 and later)
Comments:	Factory Code 197.1414, System Number 006040, System Level 0501
Document Revision Date:	1/30/2013

OVERVIEW AND SUPPORTED FEATURES

The **GE Concord** panels integrate with the **g!** system using an RS-232 serial connection. The Concord requires the **SuperBus 2000 Automation Module (60-783-02)** in order to integrate with **g!**.

Integration of the security system provides monitoring and control from any touch screen, telephone or computer both locally and remotely. Additionally, events occurring in the security system can trigger system commands in other sub-systems in the home. For example, a burglar alarm can turn all the lights on and send out email alerts. The security system can also receive commands as a result of events within other sub-systems. For example, changing the house mode from Home to Vacation can trigger a security command to arm the system.

THESE PANELS SUPPORT THE FOLLOWING FEATURES:

Arm – Disarm: Arm and disarm from the Viewer interface is supported. Status information is available for all partitions.

Auto Arm: Arming as a System Command from the Event Mapper is supported. By default, automatic arming is enabled in the Configurator.

Zone Status: Zone status information is available for all zones (in any partition), and is properly shown in the Viewer.

History View: The history view is properly supported on any Viewer.

Auto Zone and Partition Detection: The **g!** system will automatically detect the zone name and number as well as partition name and number.

Zone Bypass: Faulted zones may be bypassed to allow arming.

Note: Due to the Concord panels programming, bypassing a faulted zone can only be done after the "Arm" command has been sent.

Note: The GE Concord panel may not be compatible for control via all **g!** system controllers. Please contact ELAN support for assistance or use an alternate connection method.
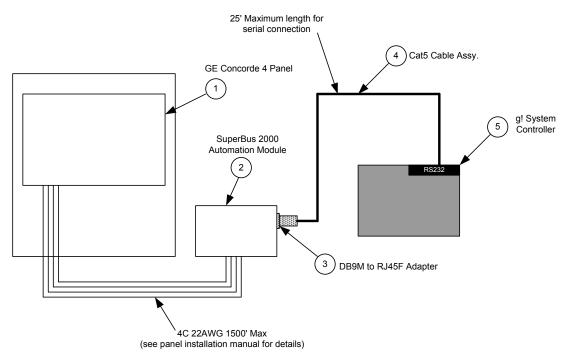
THESE PANELS DO NOT SUPPORT THE FOLLOWING FEATURES:

Any feature not specifically noted as supported should be assumed to be unsupported.

INSTALLATION OVERVIEW

1. Install the security system.

2. Run Cat5 wire from the **g!** system controller to the SuperBus Automation Module and test the cable.

3. Test the security panel, zone sensors and keypads for proper functionality on their own.

4. Connect the **g!** system to the panel electrically.

5. Configure the **g!** communication device and security panel and confirm communication between the panel and the **g!** system controller.

6. Test the arm/disarm capability from a computer or touch screen and confirm history function.

CONNECTION DIAGRAMS

25' Maximum length for serial connection

4 Cat5 Cable Assy.

GE Concorde 4 Panel

1

g! System Controller

5

SuperBus 2000 Automation Module

2

RS232

3 DB9M to RJ45F Adapter

4C 22AWG 1500' Max
(see panel installation manual for details)

BILL OF MATERIALS

#	Device	Manufacturer	Part Number	Protocol	Connector Type	Notes
1	Concord 4 Control Panel	GE	600-1040	Various	Screw Terminal	
2	Printer/Automation Module	GE	60-783-02	RS-232	Screw Terminal x DB-9 Female	
3	DB9M to RJ45 Adapter	ELAN	HA-CB-307	RS-232	DB-9 Male X RJ-45 Male	
4	Cat5 Cable	Installer	N/A	RS-232	RJ-45 Male X RJ-45 Male	Must terminate all 8 conductors
5	g! System Controller	ELAN	Various (e.g. HC12)	RS-232	RJ-45	

PANEL PROGRAMMING

No special programming is required for the Concord. When the Automation Module is installed it is automatically configured by the panel.

g! CONFIGURATION DETAILS

The following table provides settings used in the **g!** Configurator. Please refer to the *Configurator Reference Guide* for more details.

- o   "<Select>"   Select the appropriate item from the list (or drop-down) in the Configurator.
- o   "<User Defined>", etc.   Type in the desired name for the item.
- o   "<Auto Detect>", etc.   The system will auto detect this variable.

Devices	Variable Name	Setting	Comments
Communication Devices	**Name**	<User Defined> (Default: **Security**)	
	Type	**Serial Port**	
	System Controller Name	N/A	
	Communication Type	**Standard Connection**	
	Location	<User Defined> (Not Required)	
	Com Port	<Select>	
Security Panels	**Name**	<User Defined> (Default: **GE Concord**)	
	Device Type	**GE Concord**	
	Location	<User Defined> (Not Required)	
	Comm Device	<Select> (Default: **Secuirty**)	
		Name Show Auto Keys	
	Disarm	**Disarm Yes NO Code + Enter**	See Note 1.
	Mode 1	**Away Yes NO Code + Enter**	
	Mode 2	**Stay Yes NO Code + Enter**	
	Mode 3	**Stay Inst. Yes NO Code + Enter**	
	Mode 4	**Night Yes NO Code + Enter**	
	Mode 5	**Night Inst. Yes NO Code + Enter**	
	Mode 6	**Vacation Yes NO Code + Enter**	
Partions	**Name**	<Auto Detect>	
	Show Partition	**Yes**	
	Areas in Partition	<User Defined> (Not Required)	
Zones	**Name**	<Auto Detect>	
	Enable Bypass	<Select> (Default: **Yes**) (See Note 2)	
	Exists in Partition	<Select> (See Note 3)	
Notes:			
1. To avoid having to press Enter, setup all the PINs in the system with the same number of digits (4, 5 or 6), then select **4 (5, or 6) Keys**.			
2. The Enable Bypass is set to Yes by default: change this to No for any zones you do not wish bypassed from the Viewer interface.			
3. For each zone, select the partitions in which that zone is a part.			

COMMON MISTAKES

1. Failing to test the Cat5 cable assembly. It is easy to make a mistake when terminating the Cat5 cable with the RJ-45 connectors. Always use a LAN tester to check for continuity and shorts.

2. Using a Cat5 patch cable without all 8 conductors. Some Ethernet patch cables only have the 4 conductors (1,2,3,6) needed for Ethernet communications. These cables will not work as patch cables for RS-232 communications. Visually inspect the clear plastic connectors to determine if all 8 wires are present.

3. Using a null modem to connect the RS-232 port. The GE panel connection **does not** require a null modem when connecting to a **g!** system controller.

4. Failing to plug the Cat5 cable assembly into the correct port. Make sure the RJ-45 connector is plugged into the same port (COM1, 2, 3 or 4) that is specified in the Configurator.