Partner: Honeywell
Model: Flex SIA
Device Type: Security System

CRESTRON
CERTIFIED **INTEGRATED** PARTNER

GENERAL INFORMATION:

SIMPLWINDOWS NAME:	"Honeywell Flex SIA v1.0 Controller"
CATEGORY:	Security
VERSION:	V. 1.0
SUMMARY:	The "Honeywell Flex SIA v1.0 Controller" can be used to establish communication through the SIA protocol.
GENERAL NOTES:	The "Honeywell Flex SIA v1.0 Controller" is intended to be used with the other SIA modules provided. The controller sends, receives and processes the SIA commands over the connected serial connection. The modules are developed against a TCP connection. The data structure on RS-232 is identical.
CRESTRON HARDWARE REQUIRED:	3-Series processor
SETUP OF CRESTRON HARDWARE:	For TCP: - You'll need a TCP/IP Client connection to the device on port 10005 (commands/responses) - You'll need a TCP/IP Server for incoming connections on port 10002 (events) Connect the Tx/Rx from both Client and Server to their corresponding I/O on the controller. Connect the "Connect-F" to the corresponding inputs. Connect "Ready to Connect" of the controller to the enable inputs. For RS-232: - You'll need to connect the Rx of the serial driver to "From_TcpClient_Rx", you'll need to leave "From_TcpServer_Rx" unconnected. - You'll need to connect the Tx of the serial driver to both "To_TcpClient_Tx" and "To_TcpServer_Tx". With RS-232 both the commands/responses and the events are send and received over the same connection.

VENDOR FIRMWARE:	A version supporting the Honeywell SIA protocol. - Galaxy Dimension (v6.0 and onwards) - Telecom module (E050 board-V3.00, and, E062 board-V1.00 onwards) - RS232 module (v1.0 onwards) - Ethernet module E080-2 (v1.0 onwards) - Ethernet module A083 (v1.0 onwards) - Ethernet module E080-04 (v3.0 onwards) - Galaxy Flex 1 (V1.00 onwards) - Galaxy Flex 3 (V3.01 onwards)
VENDOR SETUP:	The device should be configured for sending and receiving "SIA – level 4" messages from and through the controller. A summary from Honeywell is provide for your convenience. Please consult the Honeywell installer guide of your product for more detailed information.
CABLE DIAGRAM:	

CONTROL:

From_TcpClient_Rx	S	Used for receiving the serial SIA responses. (And events when they are received on the same connection)
From_TcpServer_Rx	S	Used for receiving the serial SIA events. (not used when the events are received on the same connection as the responses)
From_TcpClient_Connected	D	Used to inform the module of the current state of the connection. When using RS-232 the input need to be set high before communication starts and set low when communication ends. A session may not be longer than 300 seconds.
From_TcpServer_Connected	D	Used to inform the module of the current state of the connection. When using RS-232 the input needs to be set high.
SIA_RAW_Tx	S	This input is not intended to be used for most use case. **Expert mode**: This serial input can be used to send SIA commands directly to the device. A Header and CRC is calculated, those should not be provided. For example (send '*?543210*1*' to login with the default pin, send '*XVN*' to get the version of the device). This input might be used by custom modules.

FEEDBACK:

To_TcpClient_Tx	S	Used for sending serial SIA commands.
To_TcpServer_Tx	S	Used for sending the ACK of the SIA events
ReadyToConnect	D	High when the module and associated units are fully initialized and ready to receive SIA commands
Busy	D	High to indicate the module is currently processing data. Commands are queued internally. This output is many informative.
SIA_RAW_Rx	S	This output is not intended to be used for most use case. **Expert mode**: This output will mirror all SIA messages received (with header and CRC stripped off). The output can be observed by custom modules. For your convenience, in the demo program, the output is already being decomposed with a custom S+ module. This is provided AS IS and purely informative.

PARAMETERS:

UnitGroupId	A	A none 0 number to group controllers and units together. Used to differentiate between units of multiple devices when using multiple devices on the same system.
PIN	S	The remote PIN. Used for authenticating the controller as an SIA remote client.

I²P Certified Module

CERTRON CERTIFIED INTEGRATED PARTNER

TESTING:

OPS USED FOR TESTING:	V. 1.500.0013
SIMPL WINDOWS USED FOR TESTING:	V. 4.05.04
CRESTRON DB USED FOR TESTING:	V. 59.00.002.00
DEVICE DB USED FOR TESTING:	V. 79.05.002.00
SAMPLE PROGRAM:	Honeywell Flex SIA v1.0 Demo.smw The demo program is not intended to be used out-of-the-box in a real life system. Neither has the end user any message on the detailed protocol information. They probably don't want the ability to disable an alarm with a single click on a touch screen. You also need to ensure that the capabilities of your system meets the legal requirements. In some region integration with security systems may be subject of legal limitations.
REVISION HISTORY:	V1.0 – Initial release

©2004 Crestron Electronics, Inc.
15 Volvo Drive • Rockleigh, NJ 07647
800.237.2041 / 201.767.3400

www.crestron.com

Crestron Certified Integrated Partner Modules can be found archived on our website in the Design Center. For more information please contact our Technical Sales Department at techsales@crestron.com. The information contained on this document is privileged and confidential and for use by Crestron Authorized Dealers, CAIP Members, A+ Partners and Certified Integrated Partners only. *Specifications subject to change without notice.*