SIMPLWINDOWS NAME:	Vantage Q-Series Keypad Control
CATEGORY:	Lighting
VERSION:	2.0
SUMMARY:	Sends any of 10 button presses on any of 50 Vantage keypads.
GENERAL NOTES:	

This macro allows a Vantage Q series system to be controlled by a Crestron system. It will allow any of the 10 buttons on a standard Vantage keypad to be pressed, held, and released. Using the KEYPAD-STATION-ADDRESS analog input, any of 50 potential keypad <stations> can be accessed.

The KEYPAD-MASTER-ADDRESS and KEYPAD-STATION-ADDRESS inputs should be set up using an Analog Initialize symbol for each parameter. The parameters to use in these symbols should correspond to the master number and station number of the keypad to be controlled. The parameters can be entered in the format 1d, 2d, 3d, etc. In a typical installation, one of these macros would be used for each point of <master> control. This way, each touch panel could be controlling a different room simultaneously.

This macro only sends commands to the Vantage Q system.

NOTE: The Vantage has several RS232 ports available. Some of them are not recommended for use from a control system.

RS232 terminal port on the Master Terminal Board -- This may be used by Crestron and has been tested by Crestron. RTS/CTS are not necessary but may be used if there is a loss of data.

Q-RS232S RS232 station -- This may be used by Crestron and has been tested by Crestron. RTS/CTS are not necessary but may be used if there is a loss of data. SEE NOTE BELOW.

DB25 RS232 port on the Master Controller -- Vantage does not recommend using this port for control system connection. It has not been tested by Crestron.

NOTE: In order to get feedback from the Vantage, using the Q-RS232S RS232 station, the Q-RS232S must be programmed into the Vantage using their QLink software. See the literature that came with the Q-RS232S for more details on this. Below is a brief description of how to add the Q-RS232S.

1. Open the QLink software and connect your computer to the Vantage.
2. Open the program(.qlk) for the Vantage system you are working on.
3. Select a location to add the rs232 port to.
4. Go to Add\Station\RS232.
5. Select the port settings you wish to use, then click ok.
6. Go to System\Configure Stations.
7. Select Configure under Online Configuration.
8. Select the RS232 port.
9. Press the configure button on the Q-RS232S box. You will need a paper clip.
10. The Q-RS232S should now be added to the system.

11. Be sure to save the file to flash back up.

CRESTRON HARDWARE:	CNXCOM, ST-COM
SETUP OF CRESTRON HARDWARE:	Baud Rate - 19200 Parity - None Data Bits - 8 Stop Bits - 1 RTS/CTS may be used if there are a large number of devices on the Vantage system. It is not normally necessary.
VENDOR FIRMWARE:	6.20
VENDOR SETUP:	The baud rate is set to 19200 as a default. Be sure it has not been changed.
CABLE NUMBER:	CNSP-125 or CNSP-143 for Hardware Handshaking (RTS/CTS)

CONTROL:

KEYPAD-MASTER-ADDRESS	A	Receives Master's address
KEYPAD-STATION-ADDRESS	A	Receives Station's address
BUTTON-1	D	Button press #1 from touchpanel
BUTTON-2	D	Button press #2 from touchpanel
BUTTON-3	D	Button press #3 from touchpanel
BUTTON-4	D	Button press #4 from touchpanel
BUTTON-5	D	Button press #5 from touchpanel
BUTTON-6	D	Button press #6 from touchpanel
BUTTON-7	D	Button press #7 from touchpanel
BUTTON-8	D	Button press #8 from touchpanel
BUTTON-9	D	Button press #9 from touchpanel
BUTTON-10	D	Button press #10 from touchpanel

FEEDBACK:

VANTAGE-TX$	S	Serial data string to be routed to a 2-way RS232 port

OPS USED FOR TESTING:	5.12.63x
COMPILER USED FOR TESTING:	SimplWindows Version 1.61.13
SAMPLE PROGRAM:	Vantagetsta.smw
REVISION HISTORY:	2-6-2002: Changed the help file to add information about which RS232 ports to use on the Vantage.