

DESCRIPTION

Pro-Link is a programmable protocol whose messages can be programmed into the controller. Using Pro-Link, an HAI controller can send commands to and interpret commands from systems that are not programmable, such as lighting controls and infrared controls.

The Pro-Link protocol allows you to send and receive predefined text messages through an HAI Serial Interface. You can store up to 128 messages that can be sent and received. Each message can be up to 15 ASCII characters long. Several messages can be strung together and sent as one long message. Messages can be sent using any system trigger (timed, event, or macro) just like any other item in the controller. Incoming ASCII strings that match stored messages in the controller can be used to activate macros.

SEND MESSAGE COMMAND

The Message Menu is used Send Message Command through the serial port.

Note: prior to sending and receiving messages, each message must be defined under Setup | Names | Message in the controller.

To enter the Message menu, from the top-level display or from the main menu, press the 8 (MESSAGE) key on the console keypad.

MESSAGE 1=SHOW 2=LOG 3=CLEAR↓ 4=SEND

The 4 (SEND) key allows you to send any of the 128 text messages through the Pro-Link serial port. You are first prompted to specify the desired serial port.

SERIAL PORT: 1-2

The serial interface module with the lowest expander address is assigned to serial port 1. Serial port 2 will be the next higher addressed serial interface module.

Next, select the message to be sent. You may enter the message number followed by the '#' key to send that message, or simply press the down arrow key to scroll through a list of messages. Press the '#' key to send the selected message:

MSGNAME ENTER MESSAGE: ↓

The message is sent out through the specified Pro-Link port exactly as the message was entered in Setup / Names / Message.

Carriage returns and line feed characters are not automatically appended to the end. To send ASCII control as part to the message, use the caret "^" character in the message. This character specifics that the next character is to be interpreted as an ASCII control character, such as "^M" to represent a carriage return.

Other useful sequences would be "^J" for a line feed character and "^G" for a bell character. To include an actual "^" character in the message, enter it twice as in "^^".

Each message can be up to 15 characters long. To send a longer message, simply program two messages to be sent one after the other.

RECEIVE MESSAGE ACTIVATED BUTTON

The When Button Program menu has been expanded to add the 8 (MSG) button.

Pro-Link also has the capability to monitor the serial port for incoming text messages. When a text message is received, Pro-Link searches through all 128 messages for a matching message. If one is found, the Program Command (macro) corresponding to the matching message is activated.

From the Edit Program When menu, press the 2 (BUTTON) key to set up a program to be activated when a particular button is run or a particular event occurs. The user is prompted to specify the button/event that activates the program:

BUTTON: ENTER BUTTON $\#=M \text{ ENU } \downarrow$

Pressing the '# 'key first will bring up a menu of button types:

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BUTTON TYPE

1=CTRL 2=SEC 3=ZONE ↓

4=ALL 5=ALARM 6=X-10

7=MISC 8=MSG ↑
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Pressing the 8 (MSG) key allows you to select the button for a "receive message" activated event. You are prompted to enter the desired message:

M ESSAGE: ENTER M ESSAGE ↓

The message may be entered by entering the message number followed by the '#' key or by using the arrow keys to scroll through the list of messages.

Pro-Link determines that a message has been received when:

- One or more characters have been received followed by 100 ms of silence
- One or more characters followed by a carriage return character are received
- One or more characters followed by a line feed character are received

It is not necessary to enter the terminating carriage return or line feed character as part of the message name.