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PIPING SYSTEMS

Signet Tech-Tips

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Title: Cloning Operation Using the 8900

Description

The 8900 Multi-Parameter Controller has a Cloning feature which allows users to copy the complete set of configuration data from one 8900 controller to another. To make the terminology simple to follow, we designate the controller sending the data as the **Transmitting Controller** and the controller receiving the data as the **Receiving Controller**. There are a few simple steps involved in cloning the controllers as well as two methods of cloning: via the digital (S^3L) I/O pins on the 3-8900.401-x I/O Module or via the 3-8900.404-1 (159 000 882) Communication Module. Although this communication module has been discontinued, cloning can still work with this module if users already have one. The use of the Comm Module is covered in the 8900 manual.

This procedure will allow any 8900 to be cloned without any additional hardware.

Step 1: Controller Designations

1. Designate the 8900 controller that will receive the data and refer to this controller as the Receiving Controller.
2. Designate the other 8900 controller as the Transmitting Controller.

Step 2: Wiring

1. Connect terminal 9 of both controllers together with a single wire conductor.
2. Connect terminal 10 of both controllers together with a single wire conductor.
3. See Figure 1 below for your reference.

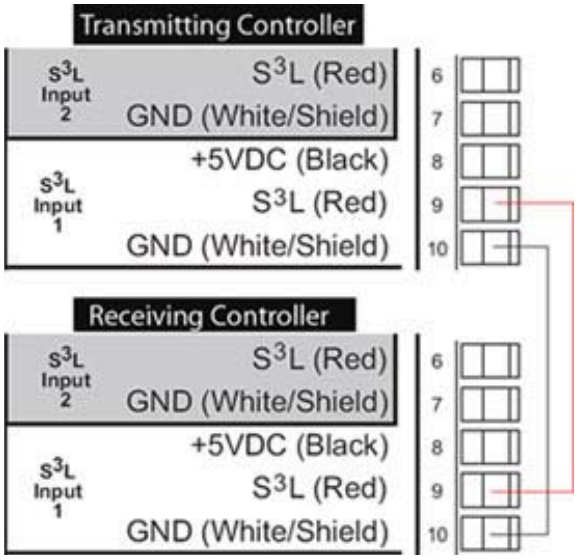
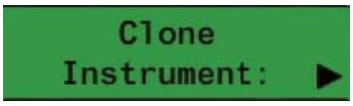


Figure 1

cont. on page 2

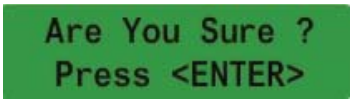
Step 3: Configure the Receiving Controller (click here for the user manual)

1. Go to the Option menu and scroll until you see the **"Clone Port"** menu item and set the selection to **"S³L"**, if not already set.
2. Scroll down to the **"Clone Operation"** menu item and set it to **"Receive"**, if not already set.
3. Scroll down in the Option's menu until you see the menu item below:



4. Press the right arrow key to toggle the selection choices.
5. Press the ENTER key, when the "Yes" selection is flashing, to proceed.
6. The message below will be displayed for about 3 seconds.

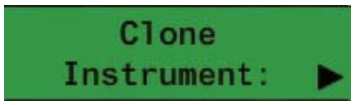
7. The message below will be followed by the previous message and will also be displayed for about 3 seconds. **DO NOT press the ENTER key yet.**



8. The Receiving Controller is now ready to start the cloning process, but the Transmitting Controller must also be configured to start the cloning process. Proceed to Step 4.

Step 4: Configure the Transmitting Controller

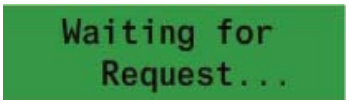
1. Now go to the Transmitting Controller's Option menu and scroll until you see the **"Clone Port"** menu item and set the selection to **"S³L"**, if not already set.
2. Scroll down to the **"Clone Operation"** menu item and set it to **"Send"**, if not already set.
3. Scroll down in the Option menu until you see the menu item below:



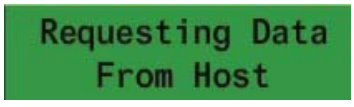
4. Press the right arrow key to toggle the selection choices.
5. **Do not press the ENTER key yet.**

Step 5: Start and Finish Cloning Process

1. TIP: Due to timing constraints, please read through steps 2 thru 6 below before actually executing them.
2. Place the two 8900 controllers near each other and press the ENTER key on the Transmitting Controller. The following should be displayed:



3. Go to the Receiving 8900 controller and press the ENTER key. **(NOTE: This step must occur within 7 seconds of the previous step).** You should see the following message displayed:



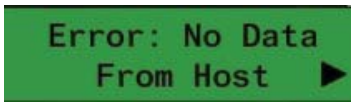
4. You should see the following message on the Transmitting Controller's display while data transfer is in progress:

The display on the Receiving Controller will remain the same as in step 3 above.

5. If the following message is displayed on both controllers, the cloning process was successful:

Otherwise, the cloning process failed; and you should see the following message displayed on the Transmitting Controller:

You should also see the following message displayed on the Receiving Controller's display



6. In either case, press the right arrow key and both 8900 controllers will restart and the Receiving controller configuration settings will be adopted if the cloning operation was successful.

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