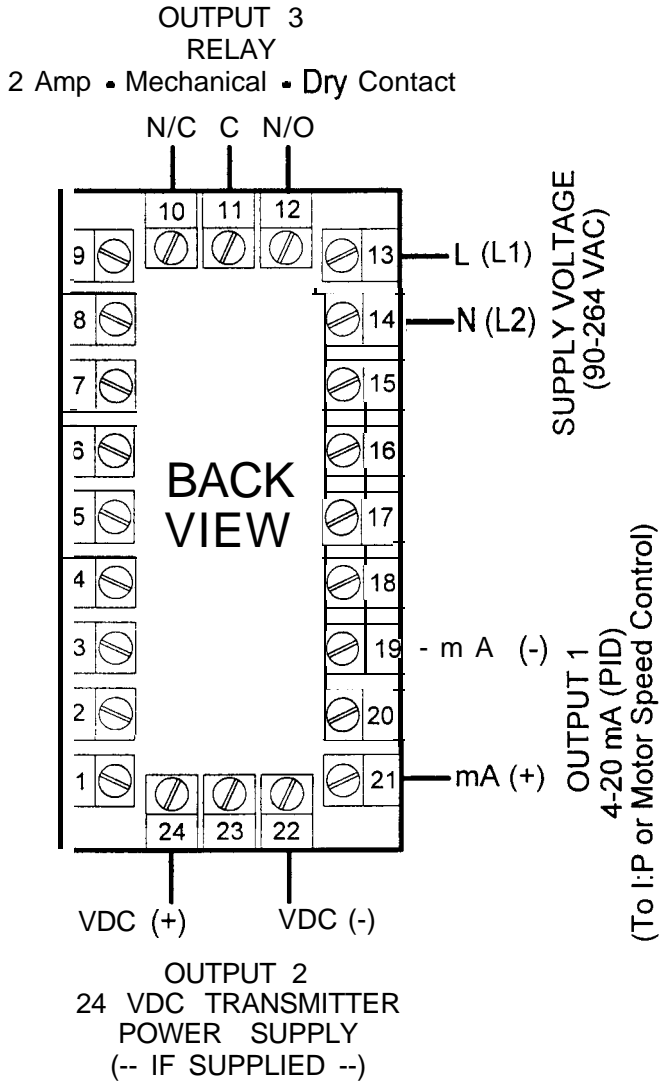




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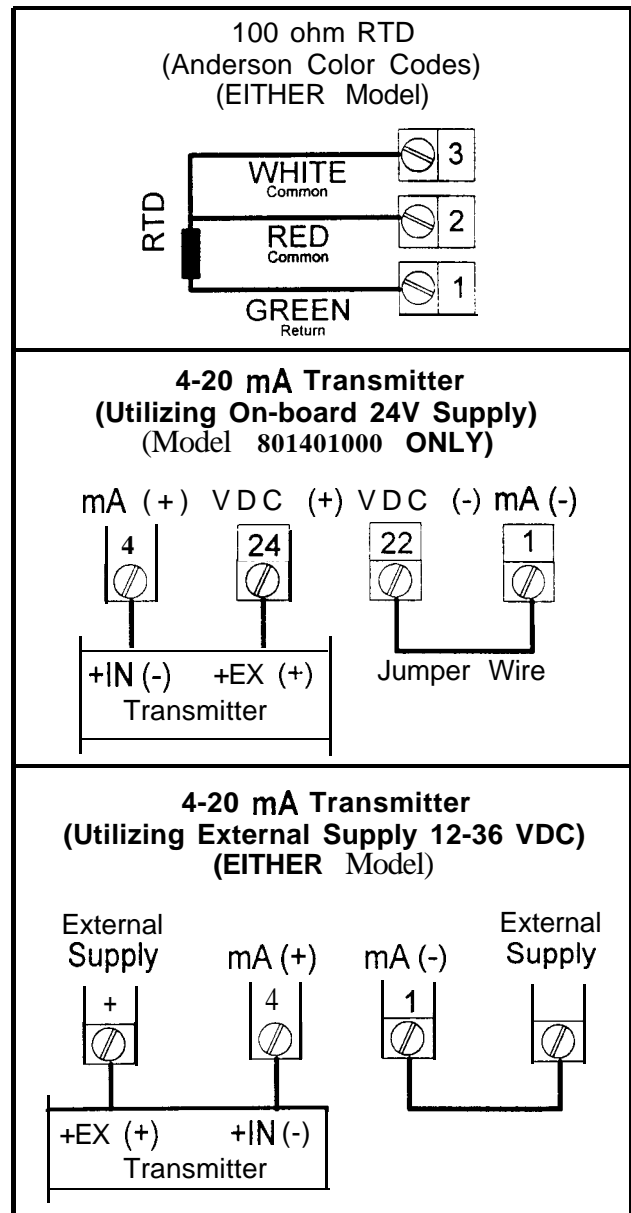
Model 801 PID Loop Controller Quick Start Notes

This bulletin is designed as a Quick Reference to be used during instrument start-up. Refer to the supplied manual for additional wiring details, as well as instructions on how to enter Program / Setup menus. Upon power-up, a **Hardware Definition Code** will be displayed. Refer to **Appendix C** of the manual for additional details. By viewing this number, it will be possible to determine the current unit configuration (Code starts with 1 = RTD input, or Code starts with 3 = 4-20 mA input). Unit configuration **MUST** match the type of input being utilized. If required, Page 2 of this bulletin illustrates the procedure to change the Hardware Definition Code. For *Transmitter* inputs, the model 801401000 Controller features an on-board DC loop power supply. The model 801101000 is factory set for use with an RTD, or mA with an external supply.



The term "Transmitter" denotes a device which outputs 4-20 mA. Depending on model, may be for Temperature, Pressure or Liquid Level. The term "RTD" denotes a device which outputs a Resistance signal. Used in Temperature measurement only.

INPUT WIRING



This section illustrates the steps required to change the **HARDWARE DEFINITION CODE**. Modifications to this code are required **ONLY** if you will be utilizing an Input Type other than specified at time of order.

Configure From RTD to 4-20 mA Input Type

CAUTION: RECORD Tune mode parameters before proceeding. Changes may cause re-initialization to default parameters. A mA transmitter input requires Loop Power. Depending on model ordered, your controller may or may not have an onboard power supply. Review page one of this document for proper identification and wiring.

The following information has been taken from the Series 801 Operations Manual. Page references to the manual have been provided.

Page 53-54: Hardware Definition Code
Page 55: Input Range Code
Page 50: Input Conditioning Jumper

Enter Program Mode

1. Press and release **SCROLL** key until **PROG** is displayed
2. Press and release **DOWN** key once
3. Press and release **SCROLL** key until **OUT 1** is displayed in lower window
4. Press and release **SCROLL** key **ONCE** (Either REV or DIR will be shown in upper display)

Enter Hardware Definition Code

5. Press **DOWN** and **SCROLL** keys simultaneously
Upper display shows: [Current Code]
Lower display shows: **dEFn**
6. Use **UP/DOWN** arrow keys to scroll through available codes until:
 - No Transmitter Power Supply
3701 is displayed
 - With Transmitter Power Supply
3711 is displayed
(Note: Output 2 in Program mode must be set for **LP_r**)
7. Press **AUTO/MANUAL** key to program new code
8. Press **DOWN** and **SCROLL** keys simultaneously to **EXIT** code setup

Modify Input Conditioning Jumpers

9. Turn power to controller **OFF**
10. Remove controller from housing
11. Move **JUMPER JU1** to **DC(mA)** position, **CENTER two** pins

Default Parameter Indication

If a *Parameter Value*, such as *Input Select*, was changed while in the *Program Mode*, when returning to the *Control Mode*, a decimal point after each digit will be lit. This display indicates all *Tune Mode Parameters* have been set to their default condition. To clear this condition, first enter the *Tune mode*. Reentering *Tune Mode* parameters to either new or previous values will reset the controller.

Configure From 4-20 mA to RTD Input Type

CAUTION: RECORD Tune mode parameters before proceeding. Changes may cause re-initialization to default parameters.

The following information has been taken from the Series 801 Operations Manual. Page references to the manual have been provided.

Page 53-54: Hardware Definition Code
Page 55: Input Range Code
Page 50: Input Conditioning Jumper
Page 25: Input Range Code / Program

Enter Program Mode

1. Press and release **SCROLL** key until **PROG** is displayed
2. Press and release **DOWN** key once
3. Press and release **SCROLL** key until **OUT 1** is displayed in lower window

Enter Hardware Definition Code

4. Press **DOWN** and **SCROLL** keys simultaneously
Upper display shows: [Current Code]
Lower display shows: **dEFn**
5. Use **UP/DOWN** arrow keys to scroll through available codes until **1701** is displayed
6. Press **AUTO/MANUAL** key to program new code
7. Press **DOWN** and **SCROLL** keys simultaneously to **EXIT** code setup

Modify Input Conditioning Jumpers

8. Turn power to controller **OFF**
9. Remove controller from housing
10. Move **JUMPER JU1** to **RTD/DC/(mV)** position, **NO PINS COVERED BY JUMPER**

Modify Input Range Code

11. Press and release **SCROLL** key until **PROG** is displayed
12. Press and release **DOWN** key once
13. Press and release **SCROLL** key until **inPS** is displayed in lower window, and a **Code Value** is shown in the upper window
14. Use **UP/DOWN** arrow keys to scroll through available codes until 7202 is displayed
15. Press and release **SCROLL** key **ONCE** (Lower window **MUST** have a Code showing, upper window **MUST** be **BLANK**)
16. Press and release the **UP** key to exit the Program Menu