

## Description of Option

This option continuously outputs an analog 0-10Vdc voltage that is proportional to the position value displayed on the iPLC unit. This signal is brought out of the unit on the J1 connector. This signal can be used in many different applications including remote displays and remote sensing of position.

This sheet only covers the "V1" part of the option. Refer to the iPLC-2-M option sheet for a description of the multi-turn software and programming.

## Hardware Connections

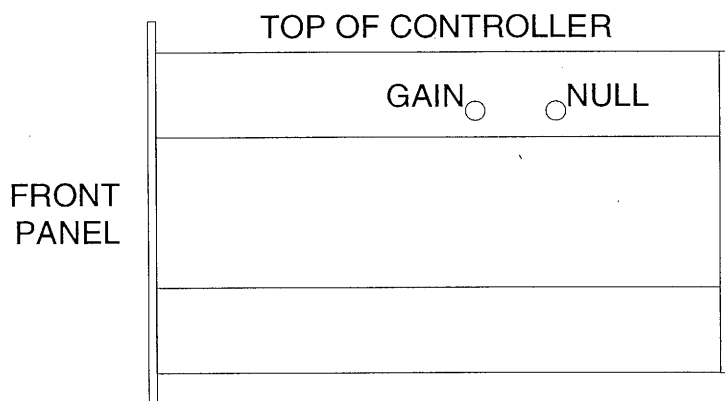
The analog output is found on pins 24 and 22 of the 40 pin J1 connector. The analog output will drive an equivalent parallel resistance of no less than 1200Ω. The analog output should be carried outside the unit by a standard twisted pair cable.

The following table lists the pinout assignments for the Analog Signal and Analog Return on various AMCI products.

	J1 Connector or IM Interface Module	RB-1Y Relay Board	MRB-1Y Relay Board
Signal	Pin 24	TB8 - Pin 5	TB7 - Pin 4
Signal Return	Pin 22	TB8 - Pin 4	TB7 - Pin 3

## Analog Output Adjustment

There are two adjustments available to adjust the analog output. These adjustments are called *NULL* and *GAIN*. Both of these adjustments are located on the side panel of the iPLC unit.



## **Additional Instructions: iPLC-2-MV1**

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### ***Analog Output Adjustment (continued)***

**To adjust the unit:**

1. Attach a DC voltmeter and a parallel load resistor of not less than 1200W (10KW works well), to pins 22 and 24 of the J1 connector or the pins of the relay boards or Interface Module as shown on the preceding page.
2. Program the unit for 50 turns and a Full Scale Count of 32,768.
3. Set the position display on the iPLC unit to 0000.
4. Using a small screwdriver, turn the *NULL* adjustment until the voltmeter reads 0.000 Vdc.
5. Set the position display to 32,767.
6. Using a small screwdriver, turn the *GAIN* adjustment until the voltmeter reads 9.998 Vdc.
7. Recheck the output voltage at position 0000. It should still be 0.000 Vdc. If not, go through this calibration procedure again starting at step 4.

***Calibration Complete***