This option continuously outputs an analog current that is proportional to the position that is displayed on the iPLC unit. This signal is brought outside the unit on the J1 Connector. This signal can be used in many different applications including remote displays and remote sensing of position.

PROGRAMMING ADDITIONS AND CHANGES:

There are no programming additions or changes with this option.

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 Series Resistance of no more than 700 Ω. The Analog Output should be carried outside the unit by a standard twisted pair of wires.

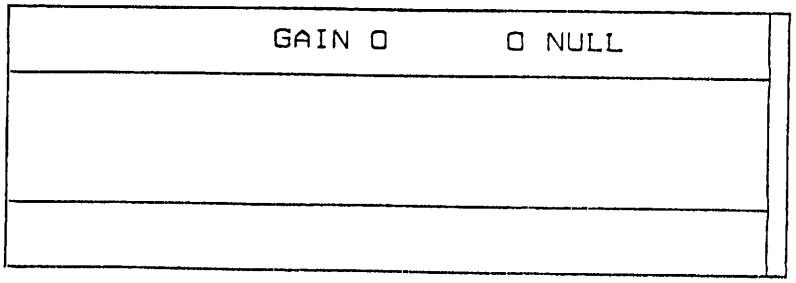
The following table lists the pinout assignments of the Analog Signal and Analog Return on various AMCI products.

	J1 CONN.	IM1	RB1	MRB
SIGNAL	Pin 24	Pin 24	Pin 5 - TB8	Pin 4 - TB7
S.RETURN	Pin 22	Pin 22	Pin 4 - TB8	Pin 3 - TB7

ANALOG OUTPUT ADJUSTMENT:

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

TOP OF UNIT



FRONT OF UNIT

ANALOG OUTPUT ADJUSTMENT: (cont'd)

To adjust the unit:

1) Attach a DC ammeter and a current limiting series resistor of no more than 700 Ω (470 Ω 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) Set the position display on the iPLC unit to 000.

3) Using a small screwdriver, turn the **NULL** adjustment until the ammeter reads 4 mAdc.

4) Program the unit for 50 turns and a Full Scale Count of 32768. Set the position display on the iPLC unit to 32767.

5) Using a small screwdriver, turn the **GAIN** adjustment until the meter reads 19.996 mAdc.

6) Recheck the output current at position 0000. It should still be 4 mAdc.

7) Calibration Complete.