



INSTRUCTION MANUAL

BGI

Bar Graph Indicator

Form 135-751-00 A

April 1988

Calibration

Introduction

For location of adjustment potentiometers or component parts, see drawing 135-551-00.

NOTE

For units with a voltage input (1-5V), a 250 Ω , 0.05% resistor must be mounted across the analog input monitor terminals. For a current input (4-20mA), no resistor is required. If the BGI has one current and one voltage input, be sure to have a resistor mounted across the voltage input terminals before switching the analog input switch to the voltage input display.

Calibration Procedure

1. Apply 0% input to the left display (red).
2. Adjust the "L-ZERO" potentiometer for 0% on the left display (first segment lit).
3. Apply 100% input to the left display.
4. Adjust the "L-SPAN" potentiometer for 100% on the display.
5. Repeat steps 1-4 until no further adjustment is required.
6. Check linearity at 25%, 50%, and 75% inputs.
7. Repeat steps 1-6 for the right display using the "R-ZERO" and "R-SPAN" potentiometers.

ZERO Adjustability

1. Apply 10% input to the left display (red).
2. Turn the "L-ZERO" potentiometer counter-clockwise until the display shows 0% or less.
3. Apply 0% to the left display.
4. Turn the "L-ZERO" potentiometer fully clockwise. The left display should show 10% or greater.
5. Repeat steps 1-4 for the right display.

SPAN Adjustability

1. Apply 0% input to the left display.
2. Adjust the "L-SPAN" potentiometer fully counter-clockwise.
3. Adjust the "L-ZERO" potentiometer for 0% on the left display (first segment lit).
4. Apply 100% input. The display should show 90% or less.
5. Reapply 0% input to the left display.
6. Adjust the "L-SPAN" potentiometer fully clockwise.
7. Readjust the "L-ZERO" potentiometer for 0% display.
8. Apply 100% input. The left display should show an overrange condition (indicated by a display flashing at approximately 2Hz).
9. Repeat steps 1-8 for the right display, using the "R-ZERO" and "R-SPAN" potentiometers.

Alarm Test

1. Apply 75% input to the left display.
 2. Short the "LA1" terminal to the "DR" terminal using a jumper or contact closure.
 3. The left display should flash at approximately 4Hz.
 4. Repeat steps 2 and 3 using the "LA2" and "DR" terminals.
 5. Repeat steps 1-3 for the right display, using the RA1, RA2, and DR terminals.
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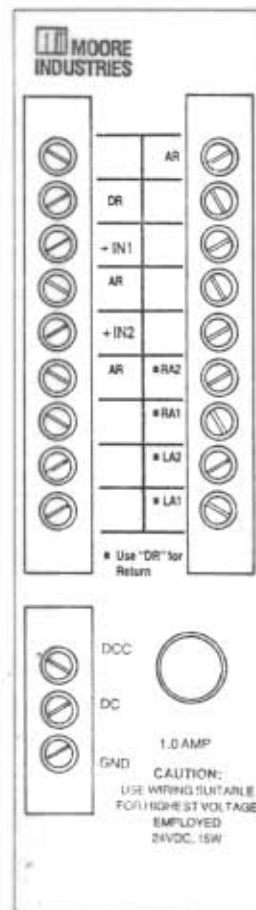
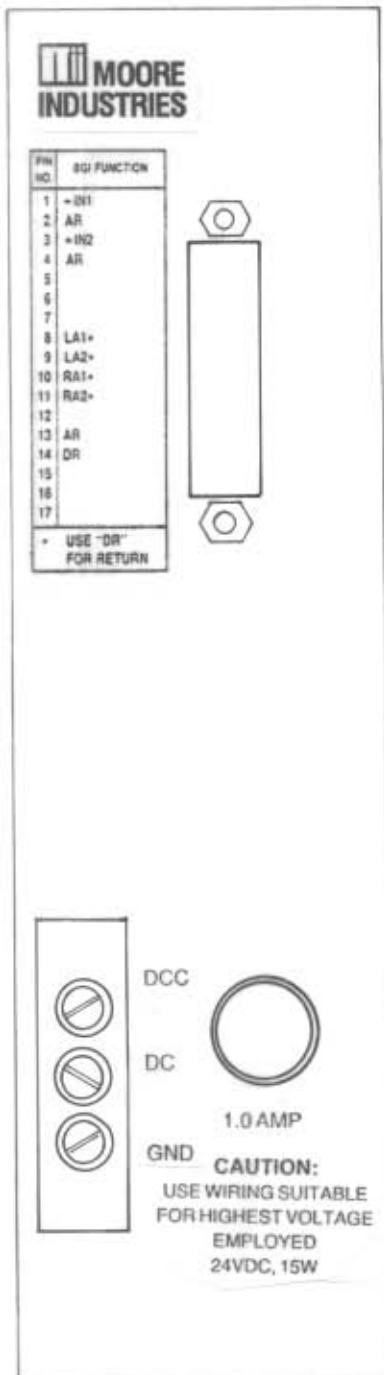


Figure 2. PMD Terminal Block for Panel Mount Unit

Table 1. Functional Description of Abbreviations

SIGNAL SYMBOL	FUNCTION
AR	Analog return
DR	Digital return
+IN1	Signal input, Left
+IN2	Signal input, Left
LA	Left alarm
RA	Right alarm
DC	24Vdc power
DCC	DC power common
GND	Equipment ground

Figure 1. PMD-D Terminal Block and D-connector Pin

RETURN PROCEDURES

To return equipment to Moore Industries for repair, follow these four steps:

1. Call Moore Industries and request a Returned Material Authorization (RMA) number.

Warranty Repair –

If you are unsure if your unit is still under warranty, we can use the unit's serial number to verify the warranty status for you over the phone. Be sure to include the RMA number on all documentation.

Non-Warranty Repair –

If your unit is out of warranty, be prepared to give us a Purchase Order number when you call. In most cases, we will be able to quote you the repair costs at that time. The repair price you are quoted will be a "Not To Exceed" price, which means that the actual repair costs may be less than the quote. Be sure to include the RMA number on all documentation.

2. Provide us with the following documentation:
 - a) A note listing the symptoms that indicate the unit needs repair
 - b) Complete shipping information for return of the equipment after repair
 - c) The name and phone number of the person to contact if questions arise at the factory
3. Use sufficient packing material and carefully pack the equipment in a sturdy shipping container.
4. Ship the equipment to the Moore Industries location nearest you.

The returned equipment will be inspected and tested at the factory. A Moore Industries representative will contact the person designated on your documentation if more information is needed. The repaired equipment, or its replacement, will be returned to you in accordance with the shipping instructions furnished in your documentation.

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ANY CAUSE OF ACTION FOR BREACH OF ANY WARRANTY BY THE COMPANY SHALL BE BARRED UNLESS THE COMPANY RECEIVES FROM THE BUYER A WRITTEN NOTICE OF THE ALLEGED DEFECT OR BREACH WITHIN TEN DAYS FROM THE EARLIEST DATE ON WHICH THE BUYER COULD REASONABLY HAVE DISCOVERED THE ALLEGED DEFECT OR BREACH, AND NO ACTION FOR THE BREACH OF ANY WARRANTY SHALL BE COMMENCED BY THE BUYER ANY LATER THAN TWELVE MONTHS FROM THE EARLIEST DATE ON WHICH THE BUYER COULD REASONABLY HAVE DISCOVERED THE ALLEGED DEFECT OR BREACH.

RETURN POLICY

For a period of thirty-six (36) months from the date of shipment, and under normal conditions of use and service, Moore Industries ("The Company") will at its option replace, repair or refund the purchase price for any of its manufactured products found, upon return to the Company (transportation charges prepaid and otherwise in accordance with the return procedures established by The Company), to be defective in material or workmanship. This policy extends to the original Buyer only and not to Buyer's customers or the users of Buyer's products, unless Buyer is an engineering contractor in which case the policy shall extend to Buyer's immediate customer only. This policy shall not apply if the product has been subject to alteration, misuse, accident, neglect or improper application, installation, or operation. THE COMPANY SHALL IN NO EVENT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.



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