

AUTOMATION PRODUCTS GROUP, INC.

Operator's Manual

PG-2000



Automation Products Group, Inc.

APG...Providing tailored solutions for measurement applications

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Table of Contents

Warranty 3

Instructions 4

Zero Trimming 4

Battery Replacement (9 Volt Type)..... 4

Re-Calibration 4

External Power..... 5

• Warranty and Warranty Restrictions

APG warrants its products to be free from defects of material and workmanship and will, without charge, replace or repair any equipment found defective upon inspection at its factory, provided the equipment has been returned, transportation prepaid, within 18 months from date of shipment from factory.

THE FOREGOING WARRANTY IS IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES NOT EXPRESSLY SET FORTH HEREIN, WHETHER EXPRESSED OR IMPLIED BY OPERATION OF LAW OR OTHERWISE INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

No representation or warranty, express or implied, made by any sales representative, distributor, or other agent or representative of APG which is not specifically set forth herein shall be binding upon APG. APG shall not be liable for any incidental or consequential damages, losses or expenses directly or indirectly arising from the sale, handling, improper application or use of the goods or from any other cause relating thereto and APG's liability hereunder, in any case, is expressly limited to the repair or replacement (at APG's option) of goods.

Warranty is specifically at the factory. Any on site service will be provided at the sole expense of the Purchaser at standard field service rates.

All associated equipment must be protected by properly rated electronic/electrical protection devices. APG shall not be liable for any damage due to improper engineering or installation by the purchaser or third parties. Proper installation, operation and maintenance of the product becomes the responsibility of the user upon receipt of the product.

Returns and allowances must be authorized by APG in advance. APG will assign a Return Material Authorization (RMA) number which must appear on all related papers and the outside of the shipping carton. All returns are subject to the final review by APG. Returns are subject to restocking charges as determined by APG's "Credit Return Policy".

• Instructions

All units are factory calibrated prior to shipment.

NOTE: Due to the temperature sensitivity of the strain gages within the sensor, sudden temperature changes, such as holding an unmounted gauge by the sensor, will cause the readings on the display to fluctuate. Please install the gauge in your system before determining stability.

1. Zero Trimming:

If it becomes necessary to re-adjust the “Zero” on the display, this can be accomplished by turning the trimpot marked “Z” just to the left of the On/Off push button. On the PG-2000 there is either a zero adjustment knob or a black nylon cover screw. If the gauge has a cover screw, it is necessary to remove the cover screw to access the zero adjustment pot. An ideal zero is indicated by a reading of 000 with an intermittently flashing “-” sign.

NOTE: A jewelers screwdriver or an eyeglass repair screwdriver (supplied) is a suitable instrument. Do not make changes to the Span adjustment (the “S” pot to the right of the push button) as part of the zero trimming. The Span should only be changed as part of the re-calibration of a gauge with a known pressure source.

2. Battery Replacement (9 Volt Type):

The battery can be replaced simply by removing the single screw at the top of the battery door. Remove the old battery, unplug the cable connector and replace with Eveready type 216 or equivalent. Replace the battery door and secure with the self-tapping screw (do not overtighten).

NOTE: For best accuracy, re-calibration (see section below) should be performed at the time batteries are replaced.

3. Re-Calibration:

This procedure requires a known pressure source of at least $\pm 0.1\%$ accuracy in order to fully utilize the accuracy potential of the PG-2000. (If not available, gauge can be returned to APG for re-calibration.)

Procedure:

- A. Ensure the Gauge is at 0 psig (or vacuum if absolute), and adjust the zero as per instructions in #1.
- B. Apply full scale pressure to the pressure port and adjust the span (“S”) pot until the display reads the correct pressure.

- C. Re-check the zero and re-adjust the zero ("Z") pot if required.
- D. Repeat steps B and C, until no further adjustment is required.

4. External Power:

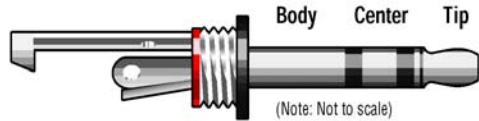
When equipped with this option, the gauge no longer operates from batteries, but instead is "externally" powered. The unit is powered via a miniature "Phone Jack" on the back of the unit. The "Tip" connection is the "+Power", and the "Center" is connected to the "-Power".

It is important that you never remove or insert the "Phone Jack" connector into the gauge with the power turned on. This can damage the gauge and cause it to fail. **Only turn the power on after the "Phone Jack" has been inserted into the external power connector.**

External Output Table

	External Power
Tip	+ Power
Center	- Power
Body	No connection

External Power and Analog Output Plug



Notes

Notes

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