

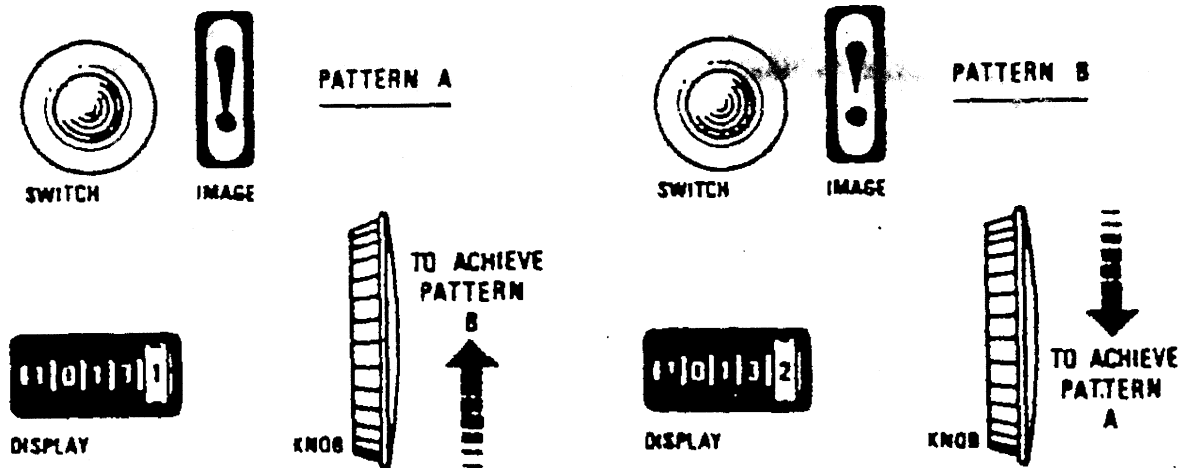


Instructions for the use of
PRECISION ANEROID BAROMETER Mk.2
TYPES M.2236, M.2236A, M.2420
M.2420A & M.2431AB

1 OPERATING INSTRUCTIONS

NOTE: Ensure that the rubber sealing cover has been removed from the pressure union before taking any readings.

Depress the switch button and watch the image on the cathode ray indicator while operating the knob in accordance with the directions given below:—



- (1) Adjust the knob to achieve pattern A.
- (2) Slowly rotate the knob clockwise, stopping at the point at which the image changes to pattern B.
- (3) The barometric pressure is now indicated on the display.

2 CHARACTERISTICS

Type No.	Range	Accuracy at 20 C	Temp. Comp.*
M.2236	900 to 1050 mb	± 0.3 mb	0.5 mb
M.2236A	800 to 1050 mb	± 0.4 mb	0.7 mb
M.2420	675 to 790 mm Hg	± 0.25 mm Hg	0.4 mm Hg
M.2420A	600 to 790 mm Hg	± 0.3 mm Hg	0.53 mm Hg
M.2431AB	26.5 to 31.0 in Hg	± 0.009 in Hg	0.015 in Hg

*Maximum change in reading for 15 C change.

3 REPLACING THE BATTERY

The battery is an EVEREADY HP2, or equivalent, and is located behind the black plastic cover adjacent to the knob.

- (1) Lift the instrument out of its carrying case after removing the three securing screws in the base of the case.
- (2) The cover is secured by a bayonet fitting; to release press the cover in, turn clockwise and withdraw.

- (3) Pull the spring clip off the top of the battery and remove the battery.
- (4) Fit a new battery ,base first, and replace the spring clip and cover.

4 REPLACING THE D.C./D.C. CONVERTER OR CATHODE RAY INDICATOR

Both the cathode ray indicator and D.C./D.C. converter are mounted on the inside of the end cover through which the operating knob projects.

Parts required:—

Cathode ray indicator part number 1847/296.

D.C./D.C. converter part number 1847/294.

A Removing the end cover:—

- (1) Remove the instrument from the carrying case as described in para. 3.(1).
- (2) Pull off the operating knob to reveal the steel bush upon which the knob was mounted.
- (3) Undo the screw securing the steel bush and remove the bush and felt washer behind it.

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- (4) Remove the three screws and dowty seals securing the end cover and lift the cover off the end of the instrument.

B Fitting a new cathode ray indicator:—

- (1) Unhook the spring from the end of the cathode ray indicator and remove the indicator from its mounting.
- (2) Fit the new cathode ray indicator in position and hook the spring over the top of the indicator.

C Fitting a new D.C./D.C. converter:—

- (1) Remove the spring clip securing the D.C./D.C. converter and unplug it from the instrument wiring.
- (2) Plug the new D.C./D.C. converter into the instrument wiring (like colour wires to like) and secure it in position on the holder for the battery with the spring clip.

D Refitting the end cover:—

Assemble the end cover to the instrument in the reverse order to removal.

5 PERIODIC TESTS

Check the instrument against a reference barometer at 6 month intervals.

6 RE-SETTING THE ZERO

If the instrument shows signs of a datum shift this can be corrected as follows:—

- (1) Unscrew the pressure union from the instruments' pressure chamber, coat the O-ring on the union with vacuum grease, then turn the union round and screw it back into the pressure chamber with the long end outwards.
- (2) Connect the pressure union of the instrument to a reference barometer, and set the pressure in the system to the middle of the range.
- (4) Remove the end cover of the instrument as described in 4A.
- (5) Insert an instrument screwdriver down the shaft projecting from the end of the instrument, depress the switch button and, using the screwdriver set the instrument so that the image on the cathode ray indicator has just broken.
- (6) Hold the shaft stationary with the screwdriver and slacken the three socket screws in the bush surrounding the shaft, then turn the bush until the counter indicates the correct reading and re-tighten the socket screws.

- (7) Check the instrument against the reference barometer and if it is correct assemble the end cover to the instrument in the reverse procedure to removal.

7 TRANSIT PRECAUTIONS

The instrument is supplied in a special transit pack which will protect it against normal handling shocks. This pack should be retained and used for any future deliveries through public services.

If the barometer is to be transported by air it is advisable to seal the pressure chamber by reversing the pressure union as described in 6.(1), then sliding the rubber cover provided over its end.

8 OVERHAUL/REPAIR FACILITIES

An overhaul and repair service is available if required. For details apply to the address below.

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