

Specification for

Sensitive altimeters for aircraft

Confirmed
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Foreword

This revised British Standard has been prepared principally on account of the introduction of the International Civil Aviation Organization (I.C.A.O.) Standard Atmosphere¹⁾ which supersedes the I.C.A.N. (International Commission for Air Navigation) relationship between static pressure and height to which these instruments were formerly calibrated.

The tabulated pressure-height tables are accordingly revised and barometric data is quoted in accordance with BS 2520, "*Barometer conventions and tables*".

In view of the fact that test barometers having scales to standards other than BS 2520 are likely to remain in use for some years, Appendix A of BS G 115:1949, containing instructions for the correction of barometers having inch scales related to London laboratory conditions, is retained in this revision as Appendix B with appropriately amended pressure-height tables. The table of fiducial temperatures for various latitudes and heights above mean sea level has been modified as a result of changes in the formulae for establishing gravity corrections. The comparable information for barometers in accordance with BS 2520 is given in that specification.

Since the maximum difference between corresponding pressure values in the I.C.A.N. and I.C.A.O. conventions over the range covered in this British Standard is 0.05 millibars, the revised pressure-altitude tables have little effect on the design or calibration of the instruments.

Information has been included relating to the incidence of testing and a friction test has been added. Recommendations for minimum tests to verify serviceability have been included.

The presentation of ground pressure has been restricted to the drum counter method.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 7 and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

¹⁾ I.C.A.O. Document No. 7488, "*Manual of the I.C.A.O. Standard Atmosphere*", (H.M.S.O.)