



Instrument tested : Precision Aneroid Barometer Mk 2
Serial Number : **1014/69**
Submitted by : London Ashford Airport
Location of test : MetEngUK laboratory – Manchester
Date of test : 09 July 2009

It is certified that the instruments have been calibrated using measuring equipment traceable to relevant International Standards or the realisation of units of measurement as made at the National Physical Laboratory.

Aviation Barometers Standard Instruments:

Druck DPI 515S Precision Pressure Controller/Calibrator (s/n 51500941)

- The uncertainty of measurement of the test apparatus used is calculated not to exceed 0.008% fs.

Procedure: Aviation barometers

The instrument under test and all test equipment were allowed to stabilise at the controlled laboratory temperature for a minimum of 12 hours.

Positive and negative pressures, from a purpose-built source supplying filtered dry air, were connected to the DPI 515S; the instrument under test was connected to the DPI 515S and after power-up, all measuring equipment was run for 30 minutes before readings were recorded.

The DPI 515S controlled pressure was set at 1000.00 hPa and the instrument under test was read. A negligible error was detected and no adjustments were carried out. A series of readings were then taken at the reference pressures shown in Table 1,

- a. with pressure decreasing through the range 1000hPa to 900 hPa
- b. with pressure increasing through the range 900 hPa to 1050 hPa
- c. with pressure decreasing through the range 1050 hPa to 1000 hPa

The corrections to be applied are based on the mean errors recorded.

Certificate Number: **618/2009**

Tested by : **P Deakin**

Checked by : **B J Mott**

Date of Issue : **09 July 2009**

Signed.....

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| Reference pressure | Mean error | Correction |
|--------------------|------------|------------|
| 1050.00 | +0.15 | -0.15 |
| 1040.00 | +0.15 | -0.15 |
| 1020.00 | +0.05 | -0.05 |
| 1000.00 | +0.05 | -0.05 |
| 980.00 | +0.05 | -0.05 |
| 950.00 | +0.10 | -0.10 |
| 920.00 | +0.00 | +0.00 |
| 900.00 | +0.05 | -0.05 |

Ambient temperature during tests: +23°C +/- 1°C