

Calibration Certificate

Report No: ZED200736-1
 Date of Test: 22 March 2021
 Client: Landgate
 1 Midland Square, Midland, WA 6056
 Unit Under Test: Barometer
 Druck DPI740, 750 to 1150mbar.a with 0.01mbar.a resolution
 Serial No: 74003848
 Reference Equipment: TM-068 Reference Barometer, Cert No. APL211918, Due Mar 2022
 TM-047-1 Deadweight tester - 100kPa, Cert No. APL209090, Due Nov 2023
 Test Method: MSA Test Method 1 - 2008

REPORT CHECKED
 18 MAY 21


Nominal Pressure	Instrument Readings and Corrections					Accuracy/Tolerance	Uncertainty
mbar.a	As Found	As Left Rising	Correction	As Left Falling	Correction	± mbar.a	± mbar.a
750.00	750.01			750.03	-0.03	0.15	0.13
790.00	790.01	790.02	-0.02	790.04	-0.04	0.15	0.13
830.00	830.01	830.02	-0.02	830.03	-0.03	0.15	0.13
870.00	870.03	870.03	-0.03	870.05	-0.05	0.15	0.13
910.00	910.04	910.04	-0.04	910.04	-0.04	0.15	0.13
950.00	950.03	950.03	-0.03	950.04	-0.04	0.15	0.13
990.00	990.03	990.03	-0.03	990.04	-0.04	0.15	0.13
1030.00	1030.04	1030.05	-0.05	1030.04	-0.04	0.15	0.13
1070.00	1070.04	1070.04	-0.04	1070.04	-0.04	0.15	0.13
1110.00	1110.06	1110.06	-0.06	1110.06	-0.06	0.15	0.13
1150.00	1150.06	1150.06	-0.06			0.15	0.13

-0.0395 mbar

MEAN CORRECTION
 -0.04 mbar

Test Conditions: The unit under test was subject to a 60 minute warm up, and given a minimum of 20 seconds settling time at each test point. After exercising the UUT several times across its range, it was zeroed with the connection port open to atmosphere. The connection port was chosen as the reference level. The UUT was tested with the display at a shallow angle to the bench with air used as the test fluid. The ambient temperature was controlled to 20°C ± 1°C.

Traceability: Accredited for compliance with ISO/IEC 17025 - Calibration. The results of tests, measurements and calibrations included in this certificate are traceable to national standards. The linear factor $\Delta 1\text{kPa} = \Delta 10\text{mbar}$ converts the measurand back to the SI unit.

Uncertainty of Measurement: The uncertainties stated above apply to corrections, and represent a 95% confidence interval (coverage factor $k = 2$).

Adjustment: No adjustments were made to the instrument during the test

Test Result: The UUT test results include 'Conditional Pass' for most test points, using the manufacturer's accuracy specification limits as detailed in the table above. Refer to the ILAC-G8:09/2019 guidelines for further information. The UUT conforms to all other requirements of MSA Test Method 1 - 2008 (other than Section 4). Calculated uncertainty was ~0.086Pa, the reported uncertainties are limited to those in our approved scope of accreditation.

Issued by:



Issued on: 22 March 2021

Sion Gardner - Technical Manager

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