

Calibration Certificate

REPORT
CHECKED
5/1/2024
AL

Report No: ZED230861-1
Date of Test: 4 January 2024
Client: Landgate
1 Midland Square, Midland, WA 6056
Unit Under Test: Digital Pressure Indicator
Druck DPI 740, 750 to 1150mBar.a with 0.01mBar.a resolution
Serial No: 74003848
Reference Equipment: TM-068 Reference Barometer
TM-047-1 Deadweight tester - 100kPa

Test Method: MSA Test Method 1

Nominal Pressure	Instrument Readings and Corrections					Accuracy/Tolerance	Uncertainty
	mBar.a	As Found	As Left Rising	Correction	As Left Falling	Correction	± mBar.a
750.00		750.09	749.97	0.03	749.97	0.03	0.15
790.00		790.09	789.99	0.01	789.97	0.03	0.15
830.00		830.08	829.98	0.02	829.97	0.03	0.15
870.00		870.06	869.97	0.03	869.97	0.03	0.15
910.00		910.07	909.97	0.03	909.97	0.03	0.15
950.00		950.07	949.97	0.03	949.98	0.02	0.15
990.00		990.08	989.97	0.03	989.97	0.03	0.15
1030.00		1030.06	1029.97	0.03	1029.97	0.03	0.15
1070.00		1070.08	1069.96	0.04	1069.96	0.04	0.15
1110.00		1110.08	1109.98	0.02	1109.97	0.03	0.15
1150.00		1150.11	1149.97	0.03			0.15

Correction
+0.03 with
over RANGE
APC

Test Conditions: The unit under test was subject to a 30 minute warm up, and given a minimum of 20 seconds settling time at each test point. The UUT was exercised several times across the UUT. The connection port was chosen as the reference level. The UUT was tested with the display at a shallow angle to the bench with nitrogen for gauge pressure and air for vacuum used as the test fluid. The ambient temperature was controlled to $19.8^{\circ}\text{C} \pm 1^{\circ}\text{C}$.

Traceability: Accredited for compliance with ISO/IEC 17025 - Calibration. The results of tests, measurements and calibrations included in this certificate are traceable to the International System of Units (SI). References used are traceable via an unbroken chain of calibrations by laboratories accredited to ISO/IEC 17025. 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: The 'As found' readings were within the manufacturer's accuracy tolerance, however the instrument has been adjusted to improve performance.

Test Result: The UUT test results include 'Conditional Pass' for all test points, using the manufacturer's accuracy specification limits. Refer to the ILAC-G8:09/2019 guidelines for further information. The UUT conforms to all other requirements of MSA Test Method 1 (other than Sections 4 and 5).

Issued by:

Issued on: 4 January 2024

Laura Toose - Calibration Technician

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Accreditation No. 20391