



22865 Savi Ranch Parkway Ste F
 Yorba Linda, CA 92887, USA
 www.additel.com

Certificate of Calibration

Report Number : 14062304

ADT672-02-GPIK-BAR-N	Digital Pressure Calibrator	27313250022	6/23/2014
(0 to 70)bar	0.025	New	In Tolerance

The above instrument was calibrated by comparison over the pressure range(s) specified. This calibration is compliant to NCSL/ISO/IEC 17025:2005 and ANSI/NCSL Z540-1. The calibration report applied only to the item described.

Reference Standards used in this calibration are traceable to the National Institute of Standards and Technology (NIST) or other recognized National Metrology Institutes (NMI's) through the listed report numbers. System expanded uncertainty evaluation includes the calibration reference used and device under test and is calculated in accordance with ISO "Guide to the Expression of Uncertainty in Measurement" (GUM). The uncertainties are reported at a coverage factor of k=2. In tolerance or pass conditions are based on the test results falling within specified limits with no reduction by the uncertainty of the measurement.

Piston Gauge	PG 7601 Base	575	10/24/2013	10/24/2017	1500155243
Piston Cylinder	PC-7100/7600-200	1144	10/23/2013	10/23/2017	1500155232
Multi-Function Calibrator	5720A	2016203	2/21/2014	2/21/2015	F5995022
8.5 Digital Multimeter	3458A	MY4504291	3/13/2014	3/13/2015	5-CK3PR-1-1

Calibration and Measurement Capabilities(CMC) are available at www.additel.com

The recommended calibration interval for this instrument is 12 months from the date of verification. Your particular quality assurance requirements may supersede this recommendation.

Environmental Conditions

Temperature: 23.0°C

Humidity: 55% RH

Performed by: 

Approved By: 

Test Results

Pressure

Parameter	Reference	Indicated Reading	Difference	Low limit	High limit	Condition
	(bar)	(bar)	(bar)	(bar)	(bar)	
Linearity	0	0.000	0.000	-0.018	0.018	pass
	7	6.999	-0.001	6.982	7.018	pass
	14	13.999	-0.001	13.982	14.018	pass
	21	20.999	-0.001	20.982	21.018	pass
	28	27.998	-0.002	27.982	28.018	pass
	35	34.999	-0.001	34.982	35.018	pass
	42	42.000	0.000	41.982	42.018	pass
	49	48.999	-0.001	48.982	49.018	pass
	56	55.998	-0.002	55.982	56.018	pass
	63	62.998	-0.002	62.982	63.018	pass
	70	69.999	-0.001	69.982	70.018	pass
Hysteresis	42	41.999	-0.001	41.982	42.018	pass
	35	35.000	0.000	34.982	35.018	pass
	28	28.000	0.000	27.982	28.018	pass
	0	0.001	0.001	-0.018	0.018	pass

DC Voltage Measurement

Accuracy: $\pm(0.01\%RD + 1.5mV)$

Range (V)	Reference	DUT	Difference	Low limit	High limit	Condition
	Input (V)	Reading (V)	(V)	(V)	(V)	
-30 to 30	-30.0000	-30.0000	0.0000	-30.0045	-29.9955	pass
	0.0000	0.0000	0.0000	-0.0015	0.0015	pass
	1.0000	1.0000	0.0000	0.9984	1.0016	pass
	2.0000	2.0000	0.0000	1.9983	2.0017	pass
	3.0000	3.0000	0.0000	2.9982	3.0018	pass
	4.0000	4.0000	0.0000	3.9981	4.0019	pass
	5.0000	5.0000	0.0000	4.9980	5.0020	pass
	10.0000	9.9999	-0.0001	9.9975	10.0025	pass
	15.0000	15.0000	0.0000	14.9970	15.0030	pass
	20.0000	20.0000	0.0000	19.9965	20.0035	pass
	25.0000	25.0001	0.0001	24.9960	25.0040	pass
	30.0000	30.0000	0.0000	29.9955	30.0045	pass

Test Results

DC Current Measurement

Accuracy: $\pm(0.01\%RD + 1.5\mu A)$

Range (mA)	Reference	DUT	Difference	Low limit	High limit	Condition
	Input (mA)	Reading (mA)	(mA)	(mA)	(mA)	
-30 to 30	-30.0000	-29.9999	0.0001	-30.0045	-29.9955	pass
	0.0000	0.0000	0.0000	-0.0015	0.0015	pass
	1.0000	1.0000	0.0000	0.9984	1.0016	pass
	2.0000	2.0000	0.0000	1.9983	2.0017	pass
	3.0000	2.9999	-0.0001	2.9982	3.0018	pass
	4.0000	4.0000	0.0000	3.9981	4.0019	pass
	5.0000	4.9999	-0.0001	4.9980	5.0020	pass
	10.0000	9.9999	-0.0001	9.9975	10.0025	pass
	15.0000	15.0000	0.0000	14.9970	15.0030	pass
	20.0000	20.0000	0.0000	19.9965	20.0035	pass
	25.0000	25.0001	0.0001	24.9960	25.0040	pass
30.0000	30.0001	0.0001	29.9955	30.0045	pass	

24V DC Output

Accuracy: $\pm 0.5V$

Range (V)	Reference	Measured	Difference	Low limit	High limit	Condition
	Output (V)	Reading (V)	(V)	(V)	(V)	
24	24	23.9969	-0.0031	23.5000	24.5000	pass