

CALIBRATION CERTIFICATE

Centre for Calibration

a unit of

NAGMAN GROUP OF COMPANIES

No.168/7, Chennai - Bangalore National Highway,
Chembarambakkam, Chennai - 600 123. Tamilnadu. INDIA
Phone : 044 -66777000, 66777066 (Lab), Marketing : 044 - 66777077
Fax : 044 - 26811703 E-Mail : cfcchennai@nagman.com, calibration@nagman.com
Site : www.nagman-calibration.com



CC-2548



CFC / FT - 01/5.10

ULR-CC254818000001668F		Certificate Number : 2018-19 / CFC / 1585 / 1	
Customer Name and Address		M/s. EDACI, Administracion Y, Laboratorio: CNEL Lynch 2684, S.Justo (1754) Pcia. B.S. AS, Argentina.	
Customer Reference		PO.NO : 2287 Dated : 09.10.2018	
Details of the Instrument			
Description		Pressure Calibrator	
Make		Nagman	
Model		MPC-P+	
Serial number		MPC 1804 P0029	
Identification Number			
Range		-0.85 to 40 bar	
Resolution		0.001 bar	
Accuracy		± 0.025%FS	
Electrical Parameters			
mA Range		0 to 50 mA(Active)/ 0 to 25 mA(Passive)	
Voltage Range		0 to 30 V	
Accuracy		± 0.025%FS	
Equipment received on		11.10.2018	
Condition of the equipment on receipt		Good	
Calibration procedure number		CFC/WI-M03,E05	
Date of calibration		11.10.2018	
Date of next calibration suggested		11.10.2019	
Calibration environments			
Temperature		23°C±2°C	
Relative humidity		35% to 65%	
Acceleration due to Gravity		9.78244215 m/sec ²	
Master Instrument Details			
		Master - I	Master - II
Description		Digital Pressure Calibrator	Multifunction Calibrator
Make		Mensor	AOIP
Type / Model		CPG 2500	Calys 50
Serial number		41000J1X	0403XY113084A
Report Number		2018-19/CFC/MASTER/043	2017-18/CFC/MASTER/218
Calibration valid till		22/07/2019	18/01/2019
Master Instrument Details			
		Master - III	
Description		Precision Multi Product Calibrator	
Make		Transmille	
Type / Model		3010A	
Serial number		J1130K11	
Report Number		CR/PCAL/49961	
Calibration valid till		07/06/2019	
The Standards used are traceable to National / International Standards			

<p>Checked by <i>vaijc</i> C.Vaithegi Team Member</p>		<p>Authorised Signatory <i>V. Sangeetha</i> V. Sangeetha Team Leader</p>
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CALIBRATION DATA

1. Pressure

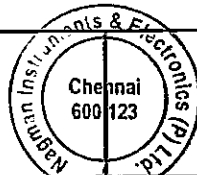
Standard Reading	Test Reading (UUC) (Mean)	Deviation	Deviation Allowed (±)	Expanded Uncertainty (±)	Coverage Factor <i>k</i>
bar	bar	bar	bar	bar	
0.0000	0.000	0.000	0.0102	0.00058	2.00
4.0000	3.998	-0.002	0.0102	0.00099	2.00
8.0000	7.999	-0.001	0.0102	0.00170	2.00
12.0000	11.998	-0.002	0.0102	0.00247	2.00
16.0000	15.999	-0.001	0.0102	0.00325	2.00
20.0000	19.998	-0.002	0.0102	0.00404	2.00
24.0000	24.000	0.000	0.0102	0.00483	2.00
28.0000	28.000	0.000	0.0102	0.00563	2.00
32.0000	31.999	-0.001	0.0102	0.00643	2.00
36.0000	36.000	0.000	0.0102	0.00722	2.00
40.0000	40.000	0.000	0.0102	0.00802	2.00

2. Vacuum

Standard Reading	Test Reading (UUC) (Mean)	Deviation	Deviation Allowed (±)	Expanded Uncertainty (±)	Coverage Factor <i>k</i>
bar	bar	bar	bar	bar	
0.00000	0.000	0.000	0.0102	0.00058	2.00
-0.10000	-0.102	-0.002	0.0102	0.00058	2.00
-0.20000	-0.202	-0.002	0.0102	0.00059	2.00
-0.30000	-0.302	-0.002	0.0102	0.00061	2.00
-0.40000	-0.402	-0.002	0.0102	0.00064	2.00
-0.50000	-0.502	-0.002	0.0102	0.00068	2.00
-0.60000	-0.603	-0.003	0.0102	0.00072	2.00
-0.70000	-0.703	-0.003	0.0102	0.00076	2.00
-0.80000	-0.803	-0.003	0.0102	0.00081	2.00
-0.85000	-0.853	-0.003	0.0102	0.00083	2.00

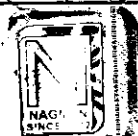
Checked by

Vanija
C.Vaithegi
Team Member



Authorised Signatory

V. Sangeetha
V.Sangeetha
Team Leader



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CALIBRATION DATA

3. Voltage Scale

Standard Reading	Test Reading (UUC) (Mean)	Deviation	Deviation Allowed (\pm)	Expanded Uncertainty (\pm)	Coverage Factor k
V	V	V	V	V	
0.1000	0.101	0.001	0.0075	0.0006	2.00
7.5000	7.499	-0.001	0.0075	0.0009	2.00
15.0000	14.999	-0.001	0.0075	0.0016	2.00
22.5000	22.501	0.001	0.0075	0.0023	2.00
30.0000	30.001	0.001	0.0075	0.0031	2.00

4. mA Scale (Active)

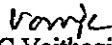
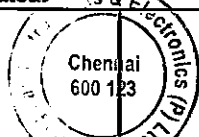

Standard Reading	Test Reading (UUC) (Mean)	Deviation	Deviation Allowed (\pm)	Expanded Uncertainty (\pm)	Coverage Factor k
mA	mA	mA	mA	mA	
0.2000	0.199	-0.001	0.0125	0.0034	2.00
12.5000	12.499	-0.001	0.0125	0.2125	2.00
25.0000	24.999	-0.001	0.0125	0.4250	2.00
37.5000	37.500	0.000	0.0125	0.6375	2.00
50.0000	50.002	0.002	0.0125	0.8500	2.00

5. mA Scale (Passive)

Standard Reading	Test Reading (UUC) (Mean)	Deviation	Deviation Allowed (\pm)	Expanded Uncertainty (\pm)	Coverage Factor k
mA	mA	mA	mA	mA	
0.2000	0.199	-0.001	0.0063	0.0034	2.00
6.2500	6.249	-0.001	0.0063	0.1062	2.00
12.5000	12.501	0.001	0.0063	0.2125	2.00
18.7500	18.750	0.000	0.0063	0.3188	2.00
25.0000	24.999	-0.001	0.0063	0.4250	2.00

Remarks:-

1. The above UUC is Calibrated at Lab.
2. UUC Is defined as Unit Under Calibration.
3. Switch Test Found O.K.
4. The measurement confidence level is 95.45%
5. The Calibration Certificate shall not be reproduced except in full without written approval of CFC.
6. The above Expanded Uncertainty includes Repeatability, Hysteresis, Resolution & Uncertainty of Measurement.
7. The above results relate only to the item calibrated.

Checked by  C.Vaithegi Team Member		Authorised Signatory  V.Sangeetha Team Leader
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