

CALIBRATION CERTIFICATE

Centre for Calibration

a unit of

NAGMAN INSTRUMENTS & ELECTRONICS (P) LTD.

Block 'B', "Nagman Complex" 27th KM Stone, Chennai - Bangalore NH4,

Nazarathpet (Via), Chembarambakkam, Chennai - 600 123. Tamilnadu.

Phone : 044 - 26811710, 26811731 (Lab), Marketing : 044 - 2681 1776

Fax : 044 - 26811703 E-Mail : cfcchennai@nagman.com, calibration@nagman.com




Site : www.nagman-calibration.com

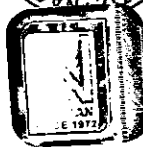


CFC / FT - 01/5.10

C-0162/C-0163/C-0164

Job No : 1389	Certificate Number : 2016-17 / CFC / 16933	
Customer Name and Address	M/s. EDACI, CNEL Lynch 2684 - San Justo, Buenos Aires - Argentina.	
Customer Reference	PO.NO: E-Mail Confirmation Dated : 08.08.2016	
Details of the Instrument		
Description	Pressure Calibrator	
Make	Nagman	
Model	MPC-H+700	
Serial number	MPC 1609 P0253	
Identification Number	-	
Range	0 to 700 bar	
Resolution	0.01 bar	
Accuracy	± 0.025 % F.S.	
Electrical Parameters		
mA Range	0 to 50 mA(Active) / 0 to 25mA (Passive)	
Voltage Range	0 to 30 V	
Accuracy	± 0.025 % F.S.	
Equipment received on	28.09.2016	
Condition of the equipment on receipt	Good	
Calibration procedure number	CFC/WI-M03,E05	
Date of calibration	28.09.2016	
Date of next calibration suggested	28.09.2017	
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	Dead Weight Tester	Piston Gauge (PCU ASSEMBLY)
Make	Pressurements	Taiyuan TAICO Pressure Measurement
Type / Model	M2800	BHY-160L
Serial number	H895	N2612
Report Number	1500159288	RGpc2014-0320
Calibration valid till	09/01/2017	23/10/2019
Master Instrument Details		
	Master-III	Master-IV
Description	Multi Product Calibrator	Multifunction Calibrator
Make	Transmille	Eurotron Instruments, Italy
Type / Model	3010A	Microcal 200+
Serial number	J1130K11	83403
Report Number	30768	2015-16/CFC/MASTER/245
Calibration valid till	04/05/2017	19/01/2017
The Standards used are traceable to National / International Standards		

<p>Checked by</p>  <p>P. Raja Team Member</p>		<p>Authorised Signatory</p>  <p>A. Manivannan Team Leader</p>
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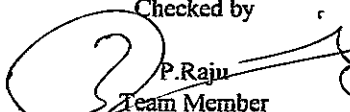
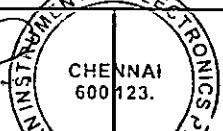
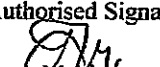
CALIBRATION DATA

1. Pressure

Standard Reading	Test Reading (UUC) (Mean)	Deviation	Deviation Allowed (\pm)	Expanded Uncertainty (\pm)	Coverage Factor k
bar	bar	bar	bar	bar	
0.0000	0.00	0.0000	0.175	0.0058	2.00
69.9983	69.96	-0.0383	0.175	0.0151	2.00
139.9978	139.96	-0.0378	0.175	0.0286	2.00
209.9977	209.95	-0.0477	0.175	0.0424	2.00
279.9952	279.95	-0.0452	0.175	0.0563	2.00
350.0013	349.97	-0.0313	0.175	0.0702	2.00
419.9995	419.96	-0.0395	0.175	0.0842	2.00
490.0036	489.97	-0.0336	0.175	0.0982	2.00
560.0009	559.99	-0.0109	0.175	0.1121	2.00
630.0030	629.98	-0.0230	0.175	0.1261	2.00
700.0039	699.98	-0.0239	0.175	0.1401	2.00

2. 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	0.100	0.000	0.0075	0.0006	2.00
7.5000	7.500	0.000	0.0075	0.0009	2.00
15.0000	15.002	0.002	0.0075	0.0016	2.00
22.5000	22.503	0.003	0.0075	0.0023	2.00
30.0000	30.004	0.004	0.0075	0.0031	2.00

Checked by  P. Raju Team Member		Authorised Signatory  A. Mathivannan Team Leader
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CALIBRATION DATA

3. 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	0.201	0.001	0.0125	0.0012	2.00
12.5000	12.496	-0.004	0.0125	0.0625	2.00
25.0000	24.999	-0.001	0.0125	0.1250	2.00
37.5000	37.497	-0.003	0.0125	0.1875	2.00
50.0000	49.995	-0.005	0.0125	0.2500	2.00

4. 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	0.200	0.000	0.0063	0.0012	2.00
6.2500	6.249	-0.001	0.0063	0.0313	2.00
12.5000	12.502	0.002	0.0063	0.0625	2.00
18.7500	18.750	0.000	0.0063	0.0938	2.00
25.0000	24.999	-0.001	0.0063	0.1250	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  P. Raju Team Member	 CHENNAI 600 123.	Authorised Signatory  A. Manivathan Team Leader
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