



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 : 1425		Calibration Certificate		No : 2015-16 / CFC / 17355	
Customer Name and Address			M/s. National Institute of Technology, Department of Energy & Environment, Tiruchirappalli - 620 015.		
Customer Reference			Instrument Received On : 28.09.2015		
Details of the Instrument					
Description			Pressure Calibrator		
Make			Fluke		
Model			718 300G		
Serial number			2384045		
Identification Number			-		
Range			-0.8 to 20 bar		
Resolution			0.001 bar		
Accuracy			± 0.025% F.S.		
Electrical Parameters					
mA Range			0 to 24 mA		
Accuracy			± 0.025% F.S.		
Equipment recived on			28.09.2015		
Condition of the equipment on receipt			Good		
Calibration procedure number			CFC/WI-M03,E05		
Date of calibration			30.09.2015		
Date of next calibration suggested			30.09.2016		
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 Gauge		Digital Pressure Gauge
Make			Wika		WIKI(Mensor)
Type / Model			CPG 2500		2500
Serial number			720572		720571
Report Number			2015-16/CFC/10347		1329
Calibration valid till			24/07/2016		24/11/2015
Master Instrument Details			Master-III		
Description			Multifunction Calibrator		
Make			Eurotron, Italy		
Type / Model			Microcal 200+		
Serial number			83403		
Report Number			2014-15/CFC/MASTER/264		
Calibration valid till			21/01/2016		
The Standards used are traceable to National / International Standards					

Checked by A. Manivannan Team Member	 Chennai 600 123	Authorised Signatory M. Jagatheeswari Team Leader
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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	0.000	0.0000	0.005	0.00058	2.00
2.0000	2.000	0.0000	0.005	0.00070	2.00
4.0000	4.002	0.0020	0.005	0.00099	2.00
6.0000	6.001	0.0010	0.005	0.00133	2.00
8.0000	8.000	0.0000	0.005	0.00170	2.00
10.0000	10.001	0.0010	0.005	0.00208	2.00
12.0000	12.000	0.0000	0.005	0.00247	2.00
14.0000	14.000	0.0000	0.005	0.00286	2.00
16.0000	16.002	0.0020	0.005	0.00325	2.00
18.0000	18.001	0.0010	0.005	0.00365	2.00
20.0000	20.000	0.0000	0.005	0.00404	2.00

2. Vacuum

Standard Reading	Test Reading (UUC) (Mean)	Deviation	Deviation Allowed ($\pm$)	Expanded Uncertainty ($\pm$)	Coverage Factor k
bar	bar	bar	bar	bar	
0.00000	0.000	0.00000	0.005	0.00058	2.00
-0.10000	-0.100	0.00000	0.005	0.00058	2.00
-0.20000	-0.200	0.00000	0.005	0.00059	2.00
-0.30000	-0.300	0.00000	0.005	0.00060	2.00
-0.40000	-0.400	0.00000	0.005	0.00063	2.00
-0.50000	-0.500	0.00000	0.005	0.00065	2.00
-0.60000	-0.600	0.00000	0.005	0.00068	2.00
-0.70000	-0.700	0.00000	0.005	0.00071	2.00
-0.80000	-0.801	-0.00100	0.005	0.00075	2.00

Checked by

A.Manivannan
Team Member



Authorised Signatory

M.Jagatheeswari
Team Leader

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3. mA Scale

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	0.0000	0.006	0.0012	2.00
6.0000	6.000	0.0000	0.006	0.0300	2.00
12.0000	12.000	0.0000	0.006	0.0600	2.00
18.0000	18.000	0.0000	0.006	0.0900	2.00
24.0000	24.000	0.0000	0.006	0.1200	2.00

Remarks:-

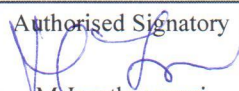
1. The above UUC is Calibrated at Lab.
2. UUC Is defined as Unit Under Calibration.
3. Switch Test Found O.K.
4. The measurement confidence level is 95.45%
5. The Calibration Certificate shall not be reproduced except in full without written approval of CFC.
6. The above Expanded Uncertainty includes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

Checked by


A. Manivannan
Team Member



Authorised Signatory


M. Jagatheeswari
Team Leader