



## CALIBRATION CERTIFICATE

### Customer Details

Customer Name : **Pace Hospitals**

Address: Number C1775, Metro Pillar, 18, Hitech City Rd, Hyderabad, Telangana 500081

Contact Name : Mr. Quddus

Contact No.: 096527 27383

### Instrument Details

Instrument Type: miniVIDAS

Serial No.: **IVD5209998**

S/w Version: 5.6.1

### Calibration Details

Calibration Date: 21-07-2021

Calibration expired on: 20-07-2022

### Calibration Report:

1. All the alignments are in the specified range	Yes
2. All the voltages are in the specified range	Yes
3. The Tray Temperatures are in the specified range (37.0°C +/- 1.7°C)	Yes
4. The SPR Temperatures are in the specified range (37.0°C +/- 1.5°C)	Yes
5. Calibration of optics (Fluorescence) value is within range with calibrator strip value (3168+/-50) RFUs	Yes

Used Equipments : Fluke Multimeter (SI No : 12790758)

### Authorised Signatory

Engineer's Name: Ravi POPURI

Signature:



## CALIBRATION CERTIFICATE OF miniVIDAS

Issued to : Pace Hospitals, Hitech City  
Certificate No. : BIO/CAL/PH/HYD/MV/21/01  
Instrument type : miniVIDAS Serial No : IVD520998  
Version No. : 5.6.1 Date : 21.07.2021

### CALIBRATION STANDARD USED

S NO	ASSET NO	TEST EQUIPMENT	MODEL NO	SERIAL NO	CAL DATE	CAL DUE DATE
1	BIO/NIBPA/ 02	Electrical Safety Analyser	ESA - 612	2111026	15.05.2021	14.05.2022

### TEST REPORT

ELECTRICAL SAFETY ANALYZER TEST RESULTS		
TEST	RESULTS	LIMITS
Line(Mains)Voltage	233.5	0.0 to 300.0V ac rms
Ground Wire Resistance	0.003Ω	0.000 to 2.000 Ω
Equipment current	1.4A	0 to 20.0 A ac rms
Insulation resistance	2 M Ω	+/-2% +0.2 M Ω
Ground(Earth) Leakage	12 μA(AC+DC)	10 to 199 Ma
Chassis(Enclosure)Leakage	0.6Ma	0.0 to 199.9 μA
Lead to Ground and Lead to lead	0.4 μA(AC+DC)	0.0 to 1999 μA
Lead isolation	0.4Ma	0.0 to 1999 μA
Differential Leakage	0.1Ma	0.0 to 1999 μA
Direct Equipment Leakage	0.3μA	0.0 to 1999 μA
Direct applied part Leakage	0.7Ma	0.0 to 1999 μA
Alternative applied part patient leakage	0.01Ω	0.0 to 1999 Ma
Point to point leakage, Voltage and Resistance	0.2μA,0.2v&OLΩ	+/-2% +0.2V

**Electrical safety test passed as per IEC Stand 60601.1**

Calibration Passed: Yes

No

### Calibration Certificate

ULR-CC22762000000797F

1) Service Request No. & Date : 2020/52 & 07/08/2020	2) Certificate No. : PV/2008/0002
3) Name & Address of Customer : M/s. Biomerieux India Pvt. Ltd. 43A, 1st Floor, Okhla Industrial Estate, Phase -III, Modi Mill Compound, New Delhi- 110020.	4) Calibration Date : 07/08/2020
	5) Due Date : 06/08/2021 (Request. By Customer)
	6) Calibration Location : --
	7) Page No. : 1 of 3

8) CONDITION OF ITEM & : OK & 07/08/2020  
DATE OF RECEIPT

9) DESCRIPTION OF ITEM:

NAME :	DIGITAL MULTIMETER	MAKE :	FLUKE
Sr.No. :	12790758	MODEL No. :	17B
RANGE :	AS PER INSTRUMENT	RESOLUTION :	AS PER RANGE
TYPE :	DIGITAL	SPECIFIED ACCURACY :	---

10) DETAILS OF CALIBRATION STANDARD USED:

NOMECLATURE	MAKE & SR.NO.	CERTIFICATE NO.	CERTIFIED BY	CALIBRATION VALIDITY
6.5 PRECISION MULTIMETER	FLUKE & 3688005	CC202019000000974F	ANSHAANKAN	14/11/2020
DECADE RESISTANCE BOX	MAS	CC202020000001134F	DELHI CALIBRATION	27/01/2021
MULTIFUNCTIONCALIBRATOR	GLAXO 20160206	PV/1905/0029	PV CALIBRATION	20/05/2021
UNIVERSAL CALIBRATOR	MASIBUS & 16101136	CC20202000000299F	ANSHAANKAN	02/07/2021

11) ENVIRONMENTAL CONDITIONS:

AMBIENT TEMPERATURE : (25±4)°C  
RELATIVE HUMIDITY : (50±20)% RH

12) CALIBRATION PROCEDURE NO. : WI(ET)/01, WI(ET)/02, WI(ET)/04

13) REFERENCE IS STANDARD : ----

14) RESULTS:(ELECTRO-TECHNICAL)

STD. READIN G IN (mV)	UUC READI NG IN (mV)	Deviation IN (mV)	Unc. Reporte d	STD. READIN G IN (V)	UUC READI NG IN (V)	Deviation IN (V)	Unc. Reported	STD. READIN G IN (V)	UUC READI NG IN (V)	Deviation IN (V)	Unc. Reported
<b>DC VOLTAGE</b>											
Range(0-400mVDC)				Range(0-4VDC)				Range(0-40VDC)			
10.016	10.0	-0.016	±0.04%	0.5034	0.500	-0.0034	±0.04%	4.9981	5.00	0.0019	±0.03%
100.020	100.0	-0.020		1.0039	1.000	-0.0039		9.9958	10.00	0.0042	
200.024	200.0	-0.024		2.0056	2.000	-0.0056		19.992	20.00	0.008	
350.039	350.0	-0.039		3.5081	3.500	-0.0081		34.988	35.00	0.012	
<b>DC VOLTAGE</b>											
Range(0-400VDC)				Range(0-1000VDC)				AC VOLTAGE@50Hz			
Range(0-400VDC)				Range(0-1000VDC)				Range(0-4VAC)			
49.832	50.0	0.168	±0.03%	399.39	400	0.61	±0.01%	0.4983	0.500	0.0017	±0.13%
99.691	100.0	0.309		599.21	600	0.79		0.9962	1.000	0.0038	
199.626	200.0	0.374		699.14	700	0.86		1.9943	2.000	0.0057	
349.459	350.0	0.541		899.03	900	0.97		3.4937	3.500	0.0063	

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TECHNICAL MANAGER



### Calibration Certificate

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STD. READIN G IN (V)	UUC READI NG IN (V)	Deviation IN (V)	Unc. Reporte d	STD. READIN G IN (V)	UUC READI NG IN (V)	Deviatio n IN (V)	Unc. Reporte d	STD. READIN G IN (V)	UUC READI NG IN (V)	Deviation IN (V)	Unc. Reporte d
<b>AC VOLTAGE@50Hz</b>											
Range(0-40VAC)			±0.12%	Range(0-400VAC)			±0.12%	Range (0-1000VAC)			±0.12%
4.992	5.00	0.008		49.95	50.0	0.05		399.68	400	0.32	
9.986	10.00	0.014		99.84	100.0	0.16		599.57	600	0.43	
19.981	20.00	0.019		199.80	200.0	0.20		799.42	800	0.58	
34.973	35.00	0.027		349.75	350.0	0.25		899.30	900	0.70	
STD. READIN G IN (mA)	UUC READI NG IN (µA)	Deviation IN (µA)	Unc. Reported	STD. READIN G IN (mA)	UUC READI NG IN (µA)	Deviation IN (µA)	Unc. Reported	STD. READIN G IN (mA)	UUC READI NG IN (mA)	Deviation IN (mA)	Unc. Reporte d
<b>DC CURRENT</b>											
Range (0-400µA)			±0.09%	Range (0-4000µA)			±0.09%	Range (0-40mA)			±0.09%
0.09952	100.0	0.48		0.49935	500	0.65		4.9932	5.00	0.0068	
0.19944	200.0	0.56		0.99875	1000	1.25		19.9892	20.00	0.0108	
0.34880	350.0	1.20		3.49840	3500	1.60		34.9870	35.00	0.0130	
STD. READIN G IN (mA)	UUC READI NG IN (µA)	Deviation IN (µA)	Unc. Reported	STD. READIN G IN (A)	UUC READI NG IN (A)	Deviation IN (A)	Unc. Reporte d	STD. READIN G IN (A)	UUC READIN G IN (A)	Deviation IN (A)	Unc. Reporte d
Range (0-400mA)			±0.18%	Range (0-4AMP.)			±0.18%	Range (0-10AMP.)			±0.18%
49.985	50.0	0.015		0.9990	1.000	0.0010		2.995	3.00	0.005	
199.94	200.0	0.06		1.9985	2.000	0.0015		5.993	6.00	0.007	
349.92	350.0	0.08		3.4978	3.500	0.0022		8.991	9.00	0.009	
STD. READIN G IN (mA)	UUC READI NG IN (µA)	Deviation IN (µA)	Unc. Reported	STD. READIN G IN (mA)	UUC READI NG IN (µA)	Deviation IN (µA)	Unc. Reporte d	STD. READIN G IN (mA)	UUC READIN G IN (mA)	Deviation IN (mA)	Unc. Reporte d
<b>AC CURRENT @50HZ</b>											
Range (0-400µA)			±0.25%	Range (0-4000µA)			±0.25%	Range (0-40mA)			±0.25%
49.982	50.0	0.018		0.9995	1.000	0.0005		4.9985	5.00	0.0015	
199.95	200.0	0.05		1.9988	2.000	0.0012		19.9972	20.00	0.0028	
349.92	350.0	0.08		3.4983	3.500	0.0017		34.9968	35.00	0.0032	
STD. READIN G IN (mA)	UUC READI NG IN (mA)	Deviation IN (mA)	Unc. Reported	STD. READIN G IN (A)	UUC READI NG IN (A)	Deviation IN (A)	Unc. Reporte d	STD. READIN G IN (A)	UUC READIN G IN (A)	Deviation IN (A)	Unc. Reporte d
Range (0-400mA)			±0.17%	Range (0-4AMP.)			±0.27%	Range (0-10AMP.)			±0.27%
49.962	50.0	0.038		0.9992	1.000	0.0008		2.992	3.00	0.008	
199.95	200.0	0.05		1.9984	2.000	0.0016		5.995	6.00	0.005	
349.89	350.0	0.11		3.4972	3.500	0.0028		8.991	9.00	0.009	

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## Calibration Certificate

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STD. READING IN ( $\Omega$ )	UUC READING IN ( $\Omega$ )	Deviation IN ( $\Omega$ )	Unc. Reported	STD. READING IN ( $k\Omega$ )	UUC READING IN ( $k\Omega$ )	Deviation IN ( $k\Omega$ )	Unc. Reported	STD. READING IN ( $k\Omega$ )	UUC READING IN ( $k\Omega$ )	Deviation IN ( $k\Omega$ )	Unc. Reported
Range (0-400 $\Omega$ )				Range (0-4 $k\Omega$ )				Range (0-40 $k\Omega$ )			
100	100.0	0.0	$\pm 0.61\%$	1	1.001	0.001	$\pm 0.61\%$	10	10.00	0.00	$\pm 0.61\%$
200	200.1	0.1		2	2.002	0.002		20	20.01	0.01	
350	350.1	0.1		3.5	3.502	0.002		35	35.01	0.01	
STD. READING IN ( $k\Omega$ )	UUC READING IN ( $k\Omega$ )	Deviation IN ( $k\Omega$ )	Unc. Reported	STD. READING IN ( $M\Omega$ )	UUC READING IN ( $M\Omega$ )	Deviation IN ( $M\Omega$ )	Unc. Reported	STD. READING IN ( $M\Omega$ )	UUC READING IN ( $M\Omega$ )	Deviation IN ( $M\Omega$ )	Unc. Reported
Range (0-400 $k\Omega$ )				Range (0-4 $M\Omega$ )				Range (0-40 $M\Omega$ )			
100	100.0	0.0	$\pm 0.61\%$	1	1.000	0.000	$\pm 0.91\%$	10	10.00	0.00	$\pm 0.91\%$
200	200.2	0.2		2	2.002	0.002		20	20.02	0.02	
350	350.2	0.2		3.5	3.503	0.003		35	35.03	0.03	

**15) CERTIFICATE ISSUE DATE: 10/08/2020**

The reported uncertainty is the expanded uncertainty in measurement obtained by multiplying the standard uncertainty by the coverage factor  $k = 2$ , which corresponds to a coverage probability of approximately 95.45% for a normal distribution.

**NOTE :** (1) The certificate will not be reissued without the written permission of higher authority.

(2) Standard(s) are traceable to National/International Standard

(3) Recommended due date is suggested by the customer.

(4) Result is the average of five readings.

(5) This report refers only to the particular item calibrated at lab/site.

(6) The calibration results reported are valid at the time of and under the stated conditions of measurements.

(7) The calibration certificate should not be reproduced in parts except in full without formal approval of lab.

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\*\*\*END OF CERTIFICATE\*\*\*



## CALIBRATION CERTIFICATE

### Customer Details

Customer Name : **Pace Hospitals**

Address: Number C1775, Metro Pillar, 18, Hitech City Rd, Hyderabad, Telangana 500081

Contact Name : Mr. Quddus

Contact No.: 096527 27383

### Instrument Details

Instrument Type: miniVIDAS

Serial No.: **IVD5209998**

S/w Version: 5.6.1

### Calibration Details

Calibration Date: 21-07-2021

Calibration expired on: 20-07-2021

### Calibration Report:

1. All the alignments are in the specified range	Yes
2. All the voltages are in the specified range	Yes
3. The Tray Temperatures are in the specified range (37.0°C +/- 1.7°C)	Yes
4. The SPR Temperatures are in the specified range (37.0°C +/- 1.5°C)	Yes
5. Calibration of optics (Fluorescence) value is within range with calibrator strip value (3168+/-50) RFUs	Yes

Used Equipments : Fluke Multimeter (SI No : 12790758)

### Authorised Signatory

Engineer's Name: Ravi POPURI

Signature: