

Ace Medical Solutions (India) Pvt. Ltd.

An ISO 9001-2015 Certified Company

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GSTIN. 33AAHCA8053H1ZR • DL No. MDU/4205/20B,MDU/3971/21B • CIN : U33110TN2009PTC072140

CALIBRATION CERTIFICATE

Customer Name & Address:	M/S. Dharshini Clinical Lab & ECG, Moondrumavadi, Madurai.	Certificate No:	AMS/LAB/2887260
		Issuing Date:	04/01/2020
		Page No:	1 of 2

Details of Device under Calibration (DUC):

DUC:	Calorimeter	Id. No:	DCL/MMVD/CAM/001
Make:	Coronation Instruments	Department:	Laboratory
Model:	M03	Calibrated On:	03/01/2020
Sl. No:	014	Calibration Due Suggested:	02/01/2021
Type:	Digital Photometer	DUC Condition on Receipt:	OK
Range & Least Count:	430,470,490,520,550,580,610,700 nm		

Traceability Details:

Sl.No.	Test Equipment	Make	Certificate Number	Valid Up to
1	Electrical Safety Analyser	Rigel/SafeTest60	PSG/CIRD/BMCC/3879/2019	20/01/2020
2	Thermo Hygrometer	HTC	QC/MD/20190218	10/02/2020

Room Temperature: 25°C±2 Room Humidity: 30-60% (At the time of Calibration)

ESA Test Results:

SL.No	Parameter	ESA Reading	Unit	Normal Range	Condition
1	Current	0.10	Amps	1	Normal
2	Frequency	50.01	Hz	49 -50	Normal
3	Mains Voltage Line - Neutral	230.6	Volts	220 - 240	Normal
4	Mains Voltage Line - Earth	232.1	Volts	220 - 240	Normal
5	Mains Voltage Neutral - Earth	4.9	Volts	< 7	Normal

*Electrical Safety: Please check the attached log sheet

SL.No	Parameter	Measured	Standard	Correction	Unit
1	Lamp Voltage	12.0	12.0	+0.00	Volts
2	Detector Sensitivity	0.0	0.0	0.0	% Absorbance
3	430 (-0.00); 470 (0.00); 490 (+0.00); 520 (+0.00);				% Absorbance
4	550 (+0.00); 580 (+0.00); 610 (+0.00);700(+0.00) Auto Zero				% Absorbance

Note:

1. Calibration Points were selected as per customer request.
2. Each reading were taken by Repeatability Test (i.e.) each reading in a row is a mean of 10 readings.
3. Results Reported are valid at the time of and under the stated conditions of measurements.

Calibrated By:

(Calibration Engineer)

B. S. S.



Approved by:

(Technical Manager)

B. S. S.

Test Record ID:	DCL/MMVD/CAM/001	DUC Name	CALORIMETER
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Test Number	Test Standard	Test	Condition	Filter Selection	Reading Value	Reading Unit	Polarity	Neutral	Earth	Applied Parts
1	Earth Bonding	Earth Bond Voltage	Normal	AC+DC	0.142	Ω	Normal	Closed	Closed	All

2	IEC60601	Leakage: Earth	Normal	AC+DC	115.3	μA	Normal	Closed	Closed	All
3		Leakage: Earth	Normal	AC+DC	113.5	μA	Reversed	Closed	Closed	All
4		Leakage: Enclosure	Normal	AC+DC	0	μA	Normal	Closed	Open	All
5		Leakage: Enclosure	Normal	AC+DC	0	μA	Reversed	Closed	Closed	All
6		Leakage: Earth	SFC	AC+DC	223.5	μA	Normal	Open	Closed	All
7		Leakage: Earth	SFC	AC+DC	224.5	μA	Reversed	Open	Closed	All
8		Leakage: Enclosure	SFC	AC+DC	116.7	μA	Normal	Closed	Open	All
9		Leakage: Enclosure	SFC	AC+DC	121.3	μA	Reversed	Closed	Open	All
10		Current	Normal	AC+DC	0.10	Amps	Normal	Closed	Closed	All
11		Frequency	Normal	AC+DC	50.01	Hz	Normal	Closed	Closed	All
12		Mains Voltage: Live to Neutral	Normal	AC+DC	230.6	V	Normal	Closed	Closed	All
13		Mains Voltage: Live to Earth	Normal	AC+DC	232.1	V	Normal	Closed	Closed	All
14		Mains Voltage: Neutral to Earth	Normal	AC+DC	4.9	V	Normal	Closed	Closed	All

15	IEC62353	Equipment Leakage	Direct Method	AC+DC	138	μA	Normal	Closed	Open	All
16		Equipment Leakage	Direct Method	AC+DC	137.7	μA	Reversed	Closed	Open	All

17	NFPA-99	Ground Leakage	Normal	AC+DC	117.3	μA	Normal	Closed	Closed	All
18		Ground Leakage	Normal	AC+DC	114.2	μA	Reversed	Closed	Closed	All
19		Ground Leakage	SFC	AC+DC	225.5	μA	Normal	Open	Closed	All
20		Ground Leakage	SFC	AC+DC	225.7	μA	Reversed	Open	Closed	All
21		Chassis Leakage	Normal	AC+DC	0	μA	Normal	Closed	Closed	All
22		Chassis Leakage	Normal	AC+DC	0	μA	Reversed	Closed	Closed	All
23		Chassis Leakage	SFC	AC+DC	119.3	μA	Normal	Closed	Open	All
24		Chassis Leakage	SFC	AC+DC	114.9	μA	Reversed	Closed	Open	All

25	IEC61010	Touch Leakage	Normal	AC+DC	0	μA	Normal	Closed	Closed	All
26		Touch Leakage	Normal	AC+DC	0	μA	Reversed	Closed	Closed	All
27		Touch Voltage	Normal	AC+DC	<7	V	Normal	Closed	Closed	All
28		Touch Voltage	Normal	AC+DC	<7	V	Reversed	Closed	Closed	All
29		Touch Leakage	SFC	AC+DC	116.5	μA	Normal	Closed	Open	All
30		Touch Leakage	SFC	AC+DC	115.7	μA	Reversed	Closed	Open	All
31		Touch Voltage	SFC	AC+DC	<7	V	Normal	Closed	Open	All
32		Touch Voltage	SFC	AC+DC	<7	V	Reversed	Closed	Open	All

33	Insulation Testing	Insulation Resistance	Normal	AC+DC	>20	MΩ	Normal	Closed	Closed	All
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34	Point to Point Testing	Point to Point Earth Bond Test	Normal	AC+DC	>19.9	Ω	Normal	Closed	Closed	All
35		Point to Point Leakage Test	Normal	AC+DC	0	mA	Normal	Closed	Closed	All
36		Standard Insulation Test	Normal	AC+DC	>20	MΩ	Normal	Closed	Closed	All

Test Passed	Yes	Tested On	03/01/2020	Tested By	B. Sre.
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