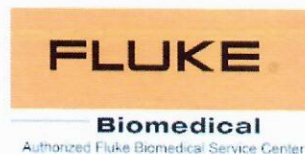




aljeel Medical & Trading Co.
Authorized Service Provider



Certificate of Calibration

ASSET NUMBER: **J000528**
MANUFACTURER: **Fluke Biomedical**
MODEL NUMBER: **Impulse 7000DP**
SERIAL NUMBER: **3023033**
DESCRIPTION: **Defibrillator Analyzer & Pacer Tester**

CUSTOMER INFORMATION

Royal Clinics
Riyadh
Saudi Arabia

PROCEDURE USED: **Impulse 7000DP VER - Exp Unc WW**
CALIBRATED BY: **Joori Alsanounah**
TEMPERATURE: **23 °C**
HUMIDITY: **40 %rh**

CALIBRATION DATE: **28 Apr 2025**
REQUESTED RECALIBRATION DATE: **28 Apr 2026**

AS-FOUND STATUS: **In Tolerance**
AS-LEFT STATUS: **In Tolerance**

Report Number: 2025000226

The issuing organization certifies that the above listed instrument meets or exceeds all specifications as stated in the referenced procedure unless otherwise noted. It has been calibrated using measurement standards traceable to the International System of Units (SI) through the National Physical Laboratory or other national metrology institutes.

Although the item calibrated may meet specification and performance criteria at the time of calibration, due to any number of factors the recommended due date of this item does not imply continuing conformance to specifications during the recommended interval.

This report may contain results of tests for which no traceable calibration standard exists, such as oxygen saturation (SpO2). These tests are conducted using in-house performance standards and accepted test procedures.

Any Test Uncertainty Ratio (TUR) that is less than four-to-one will appear under the "TUR" heading on the data record. If the TUR meets or exceeds four-to-one, the field is left blank. Test status is PASS unless noted otherwise.

Al-Jeel Medical & Trading Co. Ltd. is not liable for any damage caused by or resulting from improper or negligent use.

This certificate may not be reproduced other than in full, except with the prior written permission of the Al-Jeel Medical & Trading Co. Ltd.

REMARKS:

APPROVED BY:

Technical Manager

STANDARDS USED

ID	Description	Due Date
J35	6-1/2 Digit Precision Multimeter	24 Jul 2025
J79	Defibrillator Analyzer Gold Standard	25 May 2025

**FLUKE****Biomedical**

Authorized Fluke Biomedical Service Center

MODEL NUMBER: **Impulse 7000DP** SERIAL NUMBER: **3023033**TEST RESULTS: **IN TOLERANCE**

Test Description	Expected Value	Measured Value	Lower Limit	Upper Limit	Units	Status	TUR
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UUT Info: UI:IMPULSE 7000DP, 2.07, DSP:IMP6/7000 DSP 2.07, SN:3023033

Battery Charge Level: 100%

Charger State: Disconnected

Battery Status: OK

Fan Test

Keypad Tests

DEFIBRILLATOR LOAD RESISTANCE

50.00 Ohm	50.00	49.775	49.500	50.500	Ohm
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PACER LOAD RESISTANCE**50 Ohm Load Relay Test**

50.00 Ohm	50.00	50.095	49.000	51.000	Ohm
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100 Ohm Load Relay Test

100.00 Ohm	100.00	99.760	98.000	102.000	Ohm
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150 Ohm Load Relay Test

150.00 Ohm	150.00	149.801	147.000	153.000	Ohm
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250 Ohm Load Relay Test

250.00 Ohm	250.00	248.965	245.000	255.000	Ohm
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450 Ohm Load Relay Test

450.00 Ohm	450.00	448.034	441.000	459.000	Ohm
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850 Ohm Load Relay Test

850.0 Ohm	850.0	845.98	833.00	867.00	Ohm
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1500 Ohm Load Relay Test

1500.0 Ohm	1500.0	1492.46	1470.00	1530.00	Ohm
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LEAD 1 VERIFICATION**ECG Amplitude**

10:1 Attenuator	10.000	10.01	9.70	10.30		2.7
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0.007000 V	0.007000	0.0069942	0.0066500	0.0073500	V
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0.000700 V	0.000700	0.0007025	0.0006650	0.0007350	V
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PACER Amplitude

-0.00670 V	-0.00670	-0.006678	-0.007570	-0.005830	V
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-0.4690 V	-0.4690	-0.46612	-0.51610	-0.42190	V
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LEAD 2 VERIFICATION**ECG Amplitude**

10:1 Attenuator	10.000	10.09	9.70	10.30		2.7
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0.010000 V	0.010000	0.0099992	0.0098000	0.0102000	V
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0.001000 V	0.001000	0.0009989	0.0009800	0.0010200	V
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PACER Amplitude

-0.01000 V	-0.01000	-0.010067	-0.011200	-0.008800	V
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-0.7000 V	-0.7000	-0.70163	-0.77020	-0.62980	V
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LEAD 3 VERIFICATION**ECG Amplitude**

**FLUKE****Biomedical**

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MODEL NUMBER: **Impulse 7000DP** SERIAL NUMBER: **3023033**TEST RESULTS: **IN TOLERANCE**

Test Description	Expected Value	Measured Value	Lower Limit	Upper Limit	Units	Status	TUR
10:1 Attenuator	10.000	10.09	9.70	10.30			2.7
0.003000 V	0.003000	0.0030055	0.0028500	0.0031500	V		
0.000300 V	0.000300	0.0002966	0.0002850	0.0003150	V		3.6
PACER Amplitude							
-0.00330 V	-0.00330	-0.003386	-0.003830	-0.002770	V		
-0.2310 V	-0.2310	-0.23551	-0.25430	-0.20770	V		
LEAD V1 VERIFICATION							
ECG Amplitude							
10:1 Attenuator	10.000	10.09	9.70	10.30			2.7
0.010000 V	0.010000	0.0100091	0.0095000	0.0105000	V		
0.001000 V	0.001000	0.0010003	0.0009500	0.0010500	V		
PACER Amplitude							
-0.00670 V	-0.00670	-0.006731	-0.007570	-0.005830	V		
-0.4690 V	-0.4690	-0.46962	-0.51610	-0.42190	V		
LEAD V2 VERIFICATION							
ECG Amplitude							
10:1 Attenuator	10.000	10.10	9.70	10.30			2.7
0.010000 V	0.010000	0.0099967	0.0095000	0.0105000	V		
0.001000 V	0.001000	0.0009962	0.0009500	0.0010500	V		
PACER Amplitude							
-0.00670 V	-0.00670	-0.006729	-0.007570	-0.005830	V		
-0.4690 V	-0.4690	-0.46819	-0.51610	-0.42190	V		
LEAD V3 VERIFICATION							
ECG Amplitude							
10:1 Attenuator	10.000	10.09	9.70	10.30			2.7
0.010000 V	0.010000	0.0099660	0.0095000	0.0105000	V		
0.001000 V	0.001000	0.0009949	0.0009500	0.0010500	V		
PACER Amplitude							
-0.00670 V	-0.00670	-0.006731	-0.007570	-0.005830	V		
-0.4690 V	-0.4690	-0.46883	-0.51610	-0.42190	V		
LEAD V4 VERIFICATION							
ECG Amplitude							
10:1 Attenuator	10.000	10.06	9.70	10.30			2.7
0.010000 V	0.010000	0.0099728	0.0095000	0.0105000	V		
0.001000 V	0.001000	0.0009981	0.0009500	0.0010500	V		
PACER Amplitude							
-0.00670 V	-0.00670	-0.006754	-0.007570	-0.005830	V		
-0.4690 V	-0.4690	-0.46889	-0.51610	-0.42190	V		
LEAD V5 VERIFICATION							
ECG Amplitude							
10:1 Attenuator	10.000	10.12	9.70	10.30			2.7
0.010000 V	0.010000	0.0100096	0.0095000	0.0105000	V		
0.001000 V	0.001000	0.0009960	0.0009500	0.0010500	V		
PACER Amplitude							

Report Number: 2025000226

**FLUKE****Biomedical**

Authorized Fluke Biomedical Service Center

MODEL NUMBER: **Impulse 7000DP** SERIAL NUMBER: **3023033**TEST RESULTS: **IN TOLERANCE**

Test Description	Expected Value	Measured Value	Lower Limit	Upper Limit	Units	Status	TUR
-0.00670 V	-0.00670	-0.006758	-0.007570	-0.005830	V		
-0.4690 V	-0.4690	-0.46993	-0.51610	-0.42190	V		
LEAD V6 VERIFICATION							
ECG Amplitude							
10:1 Attenuator	10.000	10.10	9.70	10.30			2.7
0.010000 V	0.010000	0.0099682	0.0095000	0.0105000	V		
0.001000 V	0.001000	0.0009933	0.0009500	0.0010500	V		
PACER Amplitude							
-0.00670 V	-0.00670	-0.006715	-0.007570	-0.005830	V		
-0.4690 V	-0.4690	-0.46781	-0.51610	-0.42190	V		
APEX and STERNUM VERIFICATION							
ECG Amplitude							
0.007000 V	0.007000	0.0069418	0.0066500	0.0073500	V		
0.000700 V	0.000700	0.0006933	0.0006650	0.0007350	V		
10:1 Attenuator	10.000	10.08	9.70	10.30			2.7
SCOPE ECG OUTPUT VERIFICATION							
8.0000 V	8.0000	8.03634	7.60000	8.40000	V		
0.8839 V @ 200 Hz	0.8839	0.88850	0.83970	0.92810	V		
HIGH LEVEL ECG OUTPUT VERIFICATION							
8.0000 V	8.0000	7.97629	7.60000	8.40000	V		
0.8839 V @ 200 Hz	0.8839	0.88230	0.83970	0.92810	V		
200.00 Hz	200.00	200.000	198.000	202.000	Hz		
MONOPHASIC ENERGY VERIFICATION							
10.0 J	10.10	10.0	9.9	10.3	J		1.2
50.0 J	50.70	50.6	50.1	51.3	J		2.2
100.0 J	101.30	101.3	100.2	102.4	J		2.7
360.0 J	365.70	365.5	361.9	369.5	J		3.1

Cal Info SN: 3023033, CAL DATE: 28 April 2025

***** END_OF_REPORT *****