



aljeel Medical & Trading Co.
Authorized Service Provider



Certificate of Calibration

ASSET NUMBER: **J000521**
MANUFACTURER: **Fluke Biomedical**
MODEL NUMBER: **Impulse 7000DP**
SERIAL NUMBER: **3014022**
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: **16 Mar 2025**
REQUESTED RECALIBRATION DATE: **16 Mar 2026**

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

Report Number: 2025000145

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.

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REMARKS:

APPROVED BY:

Technical Manager



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STANDARDS USED

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

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MODEL NUMBER: **Impulse 7000DP** SERIAL NUMBER: **3014022**TEST RESULTS: **IN TOLERANCE**

Test Description	Expected Value	Measured Value	Lower Limit	Upper Limit	Units	Status	TUR
UUT Info: UI:IMPULSE 7000DP, 2.07, DSP:IMP6/7000 DSP 2.07, SN:3014022							
Battery Charge Level: 080%							
Charger State: Disconnected							
Battery Status: OK							
Fan Test							
Keypad Tests							
DEFIBRILLATOR LOAD RESISTANCE							
50.00 Ohm	50.00	50.177	49.500	50.500	Ohm		
PACER LOAD RESISTANCE							
50 Ohm Load Relay Test							
50.00 Ohm	50.00	50.100	49.000	51.000	Ohm		
100 Ohm Load Relay Test							
100.00 Ohm	100.00	99.792	98.000	102.000	Ohm		
150 Ohm Load Relay Test							
150.00 Ohm	150.00	149.790	147.000	153.000	Ohm		
250 Ohm Load Relay Test							
250.00 Ohm	250.00	248.995	245.000	255.000	Ohm		
450 Ohm Load Relay Test							
450.00 Ohm	450.00	447.921	441.000	459.000	Ohm		
850 Ohm Load Relay Test							
850.0 Ohm	850.0	845.95	833.00	867.00	Ohm		
1500 Ohm Load Relay Test							
1500.0 Ohm	1500.0	1492.36	1470.00	1530.00	Ohm		
LEAD 1 VERIFICATION							
ECG Amplitude							
10:1 Attenuator	10.000	9.93	9.70	10.30			2.7
0.007000 V	0.007000	0.0069663	0.0066500	0.0073500	V		
0.000700 V	0.000700	0.0006966	0.0006650	0.0007350	V		
PACER Amplitude							
-0.00670 V	-0.00670	-0.006708	-0.007570	-0.005830	V		
-0.4690 V	-0.4690	-0.46733	-0.51610	-0.42190	V		
LEAD 2 VERIFICATION							
ECG Amplitude							
10:1 Attenuator	10.000	10.09	9.70	10.30			2.7
0.010000 V	0.010000	0.0099982	0.0098000	0.0102000	V		
0.001000 V	0.001000	0.0009990	0.0009800	0.0010200	V		
PACER Amplitude							
-0.01000 V	-0.01000	-0.010072	-0.011200	-0.008800	V		
-0.7000 V	-0.7000	-0.70166	-0.77020	-0.62980	V		
LEAD 3 VERIFICATION							
ECG Amplitude							

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Test Description	Expected Value	Measured Value	Lower Limit	Upper Limit	Units	Status	TUR
10:1 Attenuator	10.000	10.07	9.70	10.30			2.7
0.003000 V	0.003000	0.0030259	0.0028500	0.0031500	V		
0.000300 V	0.000300	0.0003023	0.0002850	0.0003150	V		3.6
PACER Amplitude							
-0.00330 V	-0.00330	-0.003365	-0.003830	-0.002770	V		
-0.2310 V	-0.2310	-0.23433	-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	0.0099944	0.0095000	0.0105000	V		
0.001000 V	0.001000	0.0009962	0.0009500	0.0010500	V		
PACER Amplitude							
-0.00670 V	-0.00670	-0.006761	-0.007570	-0.005830	V		
-0.4690 V	-0.4690	-0.47065	-0.51610	-0.42190	V		
LEAD V2 VERIFICATION							
ECG Amplitude							
10:1 Attenuator	10.000	10.06	9.70	10.30			2.7
0.010000 V	0.010000	0.0100205	0.0095000	0.0105000	V		
0.001000 V	0.001000	0.0010038	0.0009500	0.0010500	V		
PACER Amplitude							
-0.00670 V	-0.00670	-0.006736	-0.007570	-0.005830	V		
-0.4690 V	-0.4690	-0.47023	-0.51610	-0.42190	V		
LEAD V3 VERIFICATION							
ECG Amplitude							
10:1 Attenuator	10.000	9.96	9.70	10.30			2.7
0.010000 V	0.010000	0.0099641	0.0095000	0.0105000	V		
0.001000 V	0.001000	0.0009983	0.0009500	0.0010500	V		
PACER Amplitude							
-0.00670 V	-0.00670	-0.006764	-0.007570	-0.005830	V		
-0.4690 V	-0.4690	-0.47030	-0.51610	-0.42190	V		
LEAD V4 VERIFICATION							
ECG Amplitude							
10:1 Attenuator	10.000	10.11	9.70	10.30			2.7
0.010000 V	0.010000	0.0100259	0.0095000	0.0105000	V		
0.001000 V	0.001000	0.0010030	0.0009500	0.0010500	V		
PACER Amplitude							
-0.00670 V	-0.00670	-0.006719	-0.007570	-0.005830	V		
-0.4690 V	-0.4690	-0.46970	-0.51610	-0.42190	V		
LEAD V5 VERIFICATION							
ECG Amplitude							
10:1 Attenuator	10.000	10.10	9.70	10.30			2.7
0.010000 V	0.010000	0.0099848	0.0095000	0.0105000	V		
0.001000 V	0.001000	0.0009978	0.0009500	0.0010500	V		
PACER Amplitude							

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Test Description	Expected Value	Measured Value	Lower Limit	Upper Limit	Units	Status	TUR
-0.00670 V	-0.00670	-0.006723	-0.007570	-0.005830	V		
-0.4690 V	-0.4690	-0.46864	-0.51610	-0.42190	V		
LEAD V6 VERIFICATION							
ECG Amplitude							
10:1 Attenuator	10.000	10.13	9.70	10.30			2.7
0.010000 V	0.010000	0.0100115	0.0095000	0.0105000	V		
0.001000 V	0.001000	0.0009965	0.0009500	0.0010500	V		
PACER Amplitude							
-0.00670 V	-0.00670	-0.006731	-0.007570	-0.005830	V		
-0.4690 V	-0.4690	-0.46891	-0.51610	-0.42190	V		
APEX and STERNUM VERIFICATION							
ECG Amplitude							
0.007000 V	0.007000	0.0069714	0.0066500	0.0073500	V		
0.000700 V	0.000700	0.0006971	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	7.95189	7.60000	8.40000	V		
0.8839 V @ 200 Hz	0.8839	0.88010	0.83970	0.92810	V		
HIGH LEVEL ECG OUTPUT VERIFICATION							
8.0000 V	8.0000	7.92786	7.60000	8.40000	V		
0.8839 V @ 200 Hz	0.8839	0.87697	0.83970	0.92810	V		
200.00 Hz	200.00	200.001	198.000	202.000	Hz		
MONOPHASIC ENERGY VERIFICATION							
10.0 J	10.20	10.1	10.0	10.4	J		1.2
50.0 J	50.60	50.5	50.0	51.2	J		2.2
100.0 J	101.20	101.4	100.1	102.3	J		2.7
360.0 J	365.40	366.0	361.6	369.2	J		3.1

Cal Info SN: 3014022, CAL DATE: 16 March 2025

*** END_OF_REPORT ***