

Report No.

24PTP\_01PM04240205

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# **Preventive Maintenance Action Report**

EQUIPMENT : DETECTORS, FETAL HEART, ULTRASONIC

ID CODE : PTP03289

MANUFACTURER : NATUS

MODEL : ELITE 200R

SERIAL No. : ECO1519

LOCATION : I.C.U

SUBMITTED BY : PHYATHAI PHAHOLYOTHIN HOSPITAL

670/1 Phaholyothin Road, Samsen Nai, Phaya Thai, Bangkok 10400

Tel: 02-271-7000 Fax: -

PM. DATE : 19 APRIL 2024

ISSUE DATE : 1 MAY 2024

Performed by:

Approved by:

7,0,

USANEE CHALONGPHOKSILCHAI PHUWASIN YIWKIM

### **CONDITION OF THIS RESULT OF TEST**

1. REFERENCE STANDARD INSTRUMENT:

MASTER MANUFACTURER MODEL SERIAL NO. CERTIFICATE NO. DUE DATE

2. THIS CERTIFICATION IS TRACEABLE TO:

3. THIS RESULT OF TEST WAS FOUND ACCURATE AS SHOW ON DATE AND PLACE OF TEST ONLY



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## 1. Qualitative Tests

No.	List	Pass	Fail	None	Comment
1	Chassis/Housing	/			
2	Mount			/	
3	Casters/Wheels/Brakes			/	
4	AC Plug			/	
5	Line Cord			/	
6	Strain Reliefs			/	
7	Circuit Breaker/Fuse			/	
8	Cables	/			
9	Fittings/Connectors	/			
10	Electrodes/Transducers	/			
11	Controls/Switches	/			
12	Fan			/	
13	Battery	/			
14	Indicators/Displays	/			
15	Self-Test	/			
16	Time/Date Settings			/	
17	Connectivity			/	
18	Cybersecurity			/	
19	Recorder/Printer			/	
20	Alarms/Interlocks			/	
21	Audible Signals	/			
22	Labeling	/			
23	Accessories	/			

# 2. Quantitative Tests

No.	List	Pass	Fail	None	Comment
1	Grounding Resistance $\leq 0.5 \Omega$			/	
2	Chassis Leakage Current ≤500 µA			/	
3	Lead-to-Ground Leakage Current (Isolated Lead)			/	
	≤100 µA (grounded); ≤500 µA (ungrounded)				
4	Rate Calibration ±5% or 5 bpm at 60 bpm and 120	/			
	bpm				
5	Rate Alarm ±5% or 5 bpm at 40 and 120 bpm			/	



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### 2. Quantitative Tests (Continues)

No.	List	Pass	Fail	None	Comment
6	Intrauterine Pressure (IUP) Transducer ±2 mm			/	
7	Gain ±10%			/	
8	QRS Sensitivity ≥0.15 mV			/	
9	Paper Speed ±2%			/	
10	Alarm Delay ≤10 sec			/	

### 3. Preventive Maintenance

N	lo.	List	Pass	Fail	None	Comment
	1	Clean the exterior and accessories	/			
	2	Lubricate			/	
	3	Adjust			/	
-	4	Replace			/	

Electrical Safety Test: Master used Electrical Safety Analyzer (Metron / QA-90) according to IEC.60601.1

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