

Report No. 24PTP\_01PM04240069

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# **Preventive Maintenance Action Report**

EQUIPMENT : DETECTORS, FETAL HEART, ULTRASONIC

ID CODE : PTP00004

MANUFACTURER : EDAN

MODEL : F9

SERIAL No. : 560154-M15902850001

LOCATION : Obstetric & Gynecology Center

SUBMITTED BY : PHYATHAI PHAHOLYOTHIN HOSPITAL

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

Tel: 02-271-7000 Fax: -

PM. DATE : 17 APRIL 2024

ISSUE DATE : 1 MAY 2024

Performed by: \_\_\_\_\_ Approved by: \_\_\_\_

USANEE CHALONGPHOKSILCHAI PHUWASIN YIWKIM

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

1. REFERENCE STANDARD INSTRUMENT:

MASTERMANUFACTURERMODELSERIAL NO.CERTIFICATE NO.DUE DATEElectrical SafetyFlukeESA615349403423MD7747 Jun 2024

Analyzer

### 2. THIS CERTIFICATION IS TRACEABLE TO:

- Technology Promotion Association (Thai-Japan)

# 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 ≤0.5 Ω                     | /    |      |      | 0.172 Ω |
| 2   | Chassis Leakage Current ≤500 μA                 | /    |      |      | 76.3 μΑ |
| 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

2301/2 New Petchburi Soi 47 (soonvijai), Bangkapi, Huaykwang, Bangkok 10310 Tel: (66) 2762 4000 Fax: (66) 2762 4072

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