

Report No. 24PTP_01PM04240065

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Preventive Maintenance Action Report

EQUIPMENT : MONITORS, BEDSIDE, PHYSIOLOGIC

ID CODE : PTP02338

MANUFACTURER : PHILIPS

MODEL : INTELLIVUE MP20(M8001A)

SERIAL No. : DE62221450

LOCATION : Emergency & Ambulance

SUBMITTED BY : PHYATHAI PHAHOLYOTHIN HOSPITAL

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

Tel: 02-271-7000 Fax: -

PM. DATE : 16 APRIL 2024

ISSUE DATE : 3 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/Fasteners | / | | | |
| 3 | Casters/Brakes | | | / | |
| 4 | AC Plug | / | | | |
| 5 | Line Cord | / | | | |
| 6 | Strain Reliefs | / | | | |
| 7 | Fan | / | | | |
| 8 | Controls/Switches | / | | | ปุ่ม silence ซำรุด |
| 9 | Battery/Charger | / | | | |
| 10 | Self-Test | / | | | |
| 11 | Time/Date Settings | / | | | |
| 12 | Cybersecurity | | | / | |
| 13 | Recorder / Printer | | | / | |
| 14 | Labeling | / | | | |
| 15 | Manuals | / | | | |
| 16 | Cables | / | | | |
| 17 | Tubes/Hoses/Bulbs | / | | | |
| 18 | Fittings/Connectors | / | | | |
| 19 | Indicators/Displays | / | | | |
| 20 | User Calibration | / | | | |
| 21 | Alarms | / | | | |
| 22 | Pressure Modes (IBP) | / | | | |
| 23 | Accessories | / | | | |

2. Quantitative Tests

| _ | _, <i>C</i> | | | | | | |
|-----|---|------|------|------|----------|--|--|
| No. | List | Pass | Fail | None | Comment | | |
| 1 | Grounding Resistance ≤0.5 Ω | / | | | 0.259 Ω | | |
| 2 | Chassis Leakage Current ≤500 µA | / | | | 128.6 μΑ | | |
| 3 | Lead -to-Ground Leakage Current ≤100 μA | / | | | 2.4 μΑ | | |
| | grounded; ≤500 μA ungrounded | | | | | | |
| 4 | Rate Calibration (ECG) ±2% or mfr | / | | | | | |
| 5 | Rate Alarm (ECG) | / | | | | | |
| 6 | Paper Speed ±2% | | | / | | | |
| | | | | | | | |



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2. Quantitative Tests (Continues)

| No. | List | Pass | Fail | None | Comment |
|-----|---|------|------|------|---------|
| 7 | Air Leakage (NIBP) ≤15 mm Hg/min | / | | | |
| 8 | Static Pressure Accuracy (NIBP) ±3 mm Hg | / | | | |
| | *Oscillometric Pressure Accuracy (NIBP) ±8 mm | | | | |
| | Hg | | | | |
| 9 | Maximum Pressure (NIBP) ≤330 mm Hg | / | | | |
| 10 | Pressure Accuracy (IBP) ±2% *or mfr spec | / | | | |
| 11 | Alarm Accuracy (IBP) ±2% | / | | | |
| 12 | Temperature Accuracy, Predictive Mode | / | | | |
| | (thermistor thermometers) (Temp) ±0.3°C (0.5°F) | | | | |
| 13 | Temperature Accuracy, Steady-State Mode | / | | | |
| | (thermistor thermometers) (Temp) ±0.3°C (0.5°F) | | | | |
| 14 | Temperature Alarms (Temp) ±0.6°C (1.0°F) | / | | | |
| 15 | Carbon Dioxide Concentration Accuracy | | | / | |
| | (Capnometers) ±0.4 vol% (±3 mm Hg) or ±10% | | | | |

3. Preventive Maintenance

| No. | 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