



Republic of the Philippines
Department of Health
MARGOSATUBIG REGIONAL HOSPITAL
Margosatubig, Zamboanga del Sur



(0981) 141-4419

mrh_gov@yahoo.com.ph/mrhgov@gmail.com

<http://mrh.doh.gov.ph>

Date: _____

Validity: 60 days

Minimum Technical Requirements for
PATIENT MONITOR

PRODUCT SPECIFICATIONS

➤ ECG

- At least 5 leads
- Sensitivity (mm/mV)
 - 1.25
 - 2.5
 - 5
 - 10
 - 20
 - 40
 - AUTO gain
- Sweep speed (mm/s)
 - 6.25
 - 12.5
 - 25
 - 50
- Bandwidth (Hz)
 - Diagnosis: 0.05 – 150
 - Diagnosis1: 0.05 – 40
 - Monitor: 0.5 – 40
 - Surgery: 1 – 20
 - Enhanced: 5 – 18
- CMRR (common mode rejection ratio)
 - Diagnosis: > 95 dB
 - Diagnosis 1, monitor, surgery, and enhanced: > 105 dB
- Hum filter
- Differential input impedance
 - > 5 MΩ

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PREPARED & REVIEWED BY

END USER: _____
DESIGNATION: _____

JAMES CARLTY D. LABADAN, ECE
CHAIRPERSON

KEVIN S. CATAGUE, ECE
VICE-CHAIRPERSON

JOEL L. LUNA
MEMBER

IVAN PAUL L. TANO, ECE
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CRIS ABEL M. GUEVARRA, MPA
MEMBER

APPROVED BY:

RICHARD B. SISON, MD, MHA, FPCHA, FPSMS
Medical Center Chief II

Philhealth Accredited
REVISION: 7

FM-MCC-005

EFFECTIVITY DATE: APRIL 1, 2024



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Minimum Technical Requirements for
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- Input signal range
 - ± 10 mVPP
- Recovery time after defibrillation
 - < 5 seconds
- Heart rate
 - Range
 - ADU: 15 to 300 bpm
 - Pedia/neonate: 15 – 350 bpm
 - Accuracy
 - 1 bpm
 - Resolution
 - 1 bpm
 - Sensitivity
 - $\geq 300 \mu$ VPP
- PVC (premature ventricular contraction)
 - Range
 - ADU: 0 – 300 PVCs/min
 - Pedia/Neonate: 0 – 350 PVCs/min
 - Resolution
 - 1 PVCs/min
- ST value
 - Range
 - - 2.0 mV to +2.0 mV
 - Accuracy
 - ± 0.2 mV or 10% whichever is higher
 - Resolution
 - 0.01 mV
- QT measurement

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Minimum Technical Requirements for
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- Range
 - 200 – 800 ms
- Resolution
 - 4 ms
- Accuracy
 - $\pm 30\text{ms}$
- RESP
 - Method
 - Impedance between RA-LL, RA-LA
 - Calculation
 - Manual
 - Automatic
 - Baseline impedance range
 - 200 – 2500 Ω
 - Measuring sensitivity
 - 0.3 Ω
 - Waveform bandwidth
 - 0.2 Hz – 3.3Hz
- NIBP
 - Technique
 - Oscillometry
 - Mode
 - Manual
 - Auto
 - Continuous
 - Measuring interval in auto mode
 - 1 to 480 minutes
 - Continuous

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Minimum Technical Requirements for
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- 5 minutes interval
- Measuring parameter
 - Systolic
 - Diastolic
 - MAP
 - PR
- Pressure unit
 - kPa
 - mmHg
 - cmH2O
- pressure range
 - systolic: 25 – 290 mmHg
 - diastolic: 10 – 250 mmHg
 - MAP: 15 – 260 mmHg
- Pressure resolution
 - 1 mmHg
- Accuracy
 - ± 5 mmHg
- CNBP (continuous non-invasive blood pressure)
- SpO2
 - Measuring range
 - 0 – 100%
 - Resolution
 - 1%
 - Accuracy
 - $\pm 3\%$
- PR
 - Range

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- 25 – 300 bpm
- Accuracy
 - 2 bpm
- Resolution
 - 1 bpm
- TEMP
 - Technique
 - Thermal resistance
 - Position
 - Skin
 - Oral cavity
 - Rectum
 - Channel
 - 2
 - Unit
 - Degree C
 - Degree F
 - Measuring range
 - 0 – 50 degree C
 - Resolution
 - 0.1 degC
 - Accuracy
 - 0.3 degC
- Power supply
 - 220 – 240 Vac
 - Battery
 - At least 5 hours operation
- Display

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Minimum Technical Requirements for
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- At least 15 inch color TFT touch screen
- 1920 x 1080 resolution
- Recorder
 - Recorder Width
 - At least 48mm
 - Paper width
 - 50 mm
 - Paper speed mm/s
 - 12.5
 - 25
 - 50
- Data storage
 - Trend
 - At least 2400 hours
 - NIBP measurement
 - At least 1200 sets
 - Alarm events
 - At least 1000 sets
- Ingress protection
 - IP22
- Standard compliance
 - IEC 60601 – 1
 - IEC 60601 – 1 – 2
 - IEC 80601 – 2 – 49

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STANDARD ACCESSORIES:

NOTE: accessories sets is per unit

- 1 pack disposable electrode

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- Automatic voltage regulator
- Bp cuff
 - 1 adult
 - 1 pediatric
 - 1 neonate
- Temperature probe
- SpO2 probe
 - Adult
 - Pedia/Neo
- Trolley/ Wall bracket (Refer to title of PR)
- 2 pieces battery

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STANDARD REQUIREMENTS UPON SUBMISSION OF BIDDING DOCUMENTS

- Soft copy of user manual

REQUIREMENT/S IF AWARDED THE CONTRACT

- Unit must be **BRAND NEW**.
- Manual in English Language
 - 2 copy of Operation manual (Hard copy)
 - Service manual with soft copy
- Training Program
 - for end-user on equipment's operation with certificate
 - Technical training with certificate (When necessary)
- Three (3) years warranty on parts and service after commissioning and acceptance
- Certification on the availability of spare parts for the next 5 years

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- Down time of machine will be added as extension of the warranty.
- With calibration certificate (When necessary)
- Supplier must respond to a service call before 72 hours and should be onsite not more than 7 days.
- **Section V. Special Conditions of the Contract**
 - Delivery Place: Margosatubig Regional Hospital, Zamboanga del Sur
- **Section VI Schedule of Requirements**
 - Completion/Delivery Period: ____ calendar days upon receipt of the Notice to Proceed including the delivery, installation, testing and commissioning, Partial delivery allowed within the completion/delivery period.

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