

PROWAVE VM 100 Vital Signs Monitors



PROWAVE VM100 (SpO2+NIBP+Quick TEMP):

ABN PROWAVE VM100 Series Vital Signs Monitor has made its mark in out-patient department and doctors' office for its accuracy, durability and cost-effectiveness by SpO2, NIBP, Quick TEMP monitoring. Its portability and multi-parameter functionality address vital signs monitoring needs.

- 5.7 inch high resolution display for easy reading
- Lightweight, portable design and user-friendly interface for easy operation
- Flexible configurations to meet different clinical needs
- Nellcor Oximax™ SpO2
- Quick Temp thermometer to obtain temperature in approximately 15 seconds
- PR measurement (from SpO2/ NIBP)
- Real-time parameters measurement display with trend table for easy reviewing
- Built-in rechargeable Lithium-ion battery for 10 hours continuous working
- Powerful storage capacity
- Bi-directional communications with central station by wired or wireless network
- Nurse call
- Suitable for adult, pediatric and neonatal patients



Quick, accurate and easy to use



Real-time data or USB data can be transferred to a PC through PC management software to review and print



Powerful storage capacity: 72 hours trend review of all parameters, 30,000 sets NIBP review, 800 items alarm review and USB data storage

PROWAVE VM 100

Vital Signs Monitors



Classification

Anti-electroshock type Class I equipment
and internal powered equipment
EMC type Class A
Anti-electroshock degree
SpO₂, NIBP, BF Defibrillation type; TEMP: CF type.
Ingress Protection IPX1 (W/O Temp module)
IPX1 (with Temp module)

Specifications

Size and Weight
Size 200.8mm (L) x 241mm (H) x 189mm (D)
Weight 3 kg
Display
5.7 inches, LCD
Color TFT resolution: 640x480
Power Supply
100-240 VAC, 50/60HZ
P_{max}=70VA FUSE T 1.6AL
Battery
Type: Lithium-ion
Voltage: 14.8 V DC Capacitance: 4,400 mAh
Working period Color TFT: 480min
Rechargeable period < 360min
Recorder (Optional)
Record Width 48 mm
Paper Speed 25mm/s

NIBP

Method Oscillometric
Mode Manual, Auto, Continuous
Measuring Interval in AUTO Mode
1/2/3/4/5/10/15/30/60/90/120/240/480 Min
Continuous 5min, interval is 5s
Measuring Type Systolic Pressure,
Diastolic Pressure, Mean Pressure

Pediatric Mode

SYS 40-200mmHg
DIA 10-150mmHg
MAP 20-165mmHg
Neonatal Mode
SYS 40-135mmHg
DIA 10-100mmHg
MAP 20-110mmHg
Cuff Pressure measuring Range 0-290mmHg
Pressure Resolution 1mmHg
Maximum mean error 5mmHg
Maximum Standard deviation 8mmHg
Entire Measuring Period 30-45s typical
(depend on HR/motion disturbance)

Dual Overpressure protection

Adult 297 ± 3mmHg
Pediatric 240 ± 3mmHg
Neonatal 145 ± 3mmHg
PR
Measuring Range 40-240bpm
Resolution ± 1bpm
Accuracy ± 3bpm or 3.5% of
the maximum

IEC 60601-2-30

SpO₂

Measuring Range 0 - 100 %
Alarm Range 0 - 100 %
Resolution 1 %
Accuracy
Adult (including Pediatric)
± 2% (70% - 100% SpO₂)
Undefined (0 - 70% SpO₂)
Neonate ± 3% (70% - 100% SpO₂)

Pulse Rate

Measuring and Alarm Range 30 - 300bpm
Resolution 1bpm
Accuracy ± 3bpm
Data update period 2s
ISO 9919

SpO₂ (optional, by Nellcor Oximax™)

Measuring Range 1 - 100 %
Alarm Range 1 - 100 %
Resolution 1 %
Accuracy
Adult and Low-perfusion
± 2% (70% - 100% SpO₂)
Undefined (0 - 70% SpO₂)
Neonate
± 3% (70% - 100% SpO₂)
Undefined (0 - 70% SpO₂)

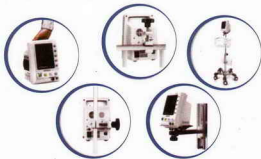
Pulse Rate

Measuring and Alarm Range 20-300bpm
Resolution 1bpm
Accuracy ± 3bpm

Quick Temperature

Measuring Range 25 - 45
Probe Type Oral/Axillary sensor
Rectal sensor
Resolution 0.1°C
Accuracy Monitor mode: ± 0.1
Typical measurement time < 15s
Update time 1s - 2s

Configuration	SpO ₂	NIBP	Quick TEMP
VM100	✓	✓	✓



ABN™

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