

THE YM 1000 VITAL SIGNS MONITOR.

Used in all hospital areas and hospital-type facilities. It may be used during hospital transport and mobile environment such as ambulances.

FEATURES AND SPECIFICATIONS

Physical

Instrument

Dimensions 130×180×284 (mm) (H×D×W)
 Weight 2.7(kg)

Electrical

AC Power Power 100Vac to 240Vac, 50 Hz/60 Hz, 60 VA
 Battery Type Lead acid Ni-MH
 Voltage/Capacity 6 V/ 4 Ah 8.4V/ 7.6Ah
 Recharge 6 hours 8 hours

Lead Acid Without any measurement and printing at 25°C → 4 hours
 With one NIBP measurement per 15 minutes, continuous SpO2 measurement and no printing → 3 hours

Ni-MH (Option) Without any measurement and printing at 25°C → 10 hours
 With one NIBP measurement per 15 minutes, continuous SpO2 measurement and no printing → 8 hours

Environmental

Operation

Temperature 10°C (50°F) to 40°C (104°F)
 Humidity 15% RH to 95% RH, non-condensing
 Atmospheric Pressure 700 ~ 1,060 hPa

Transport Storage

Temperature 10°C (50°F) to 40°C (104°F)
 Humidity 15% RH to 95% RH, non-condensing
 Atmospheric Pressure 500 ~ 1,060 hPa

Note : The system may not meet its performance specifications if stored or used outside the manufacturer's specified temperature and humidity range.

Measurement Parameters

NIBP

Pulse Rate

Pulse Rate Range Adult/Pediatric : 40 BPM to 200 BPM
 Neonatal : 40 BPM to 240 BPM
 Pulse Rate Accuracy ±2 BPM or ±2%, whichever is greater

NIBP(Non-Invasive Blood Pressure)

Technique Oscillometric Measurement
 Measurement modes AUTO, MANUAL and STAT
 AUTO Mode Automatic NIBP measurements at intervals of 1,2,3,4, 5,10,15,30,45,60,90,120 and 240 minutes
 MANUAL Mode Single measurement initiated by NIBP Start/Stop button
 STAT Mode Series of consecutive measurements for 5 minutes
 NIBP pressure measurement range
 Systolic pressure range Adult : 60 mmHg to 250 mmHg
 Pediatric : 60 mmHg to 250 mmHg
 Neonatal : 40 mmHg to 120 mmHg
 Diastolic pressure range Adult : 40 mmHg to 200 mmHg
 Pediatric : 40 mmHg to 200 mmHg
 Neonatal : 20 mmHg to 90 mmHg
 Mean pressure range Adult : 45 mmHg to 235 mmHg
 Pediatric : 45 mmHg to 235 mmHg
 Neonatal : 30 mmHg to 100 mmHg
 Pressure Display Accuracy Meets ANSI/AAMI SP 10:2002 + A1 : 2003
 Cuff Pressure Range 0 to 300 mmHg (0 to 40 kPa)

Initial Cuff Inflation Adult :
 120, 140, 160(Default), 180, 200, 220, 240, 260 mmHg
 (15.9, 18.6, 21.2(Default), 23.9, 26.6, 29.2, 31.9, 34.5 kPa)
 Pediatric :
 120(Default), 130, 140, 150, 160, 170 mmHg
 (15.9(Default), 17.2, 18.6, 19.9, 21.2, 22.6 kPa)
 Neonatal :
 80, 90(Default), 100, 110, 120, 130 mmHg
 (10.6, 11.9(Default), 13.3, 14.6, 15.9, 17.2, 18.6 kPa)

Overpressure protector Adult/Pediatric : 300 mmHg(N.C), 330mmHg(S.F.C)
 Neonatal : 150 mmHg(N.C), 165mmHg(S.F.C)

Standards ANSI/AAMI SP10:2002+A1:2003, IEC60601-2-30:1999
 EN1060-1:1995 and EN1060-3:1997.

Note: Systolic and diastolic blood pressure measurements determined with this device are equivalent to those obtained by a trained observer using the cuff/stethoscope auscultation method, within the limits recommended by the American National Standard, electronic or automated sphygmomanometers.

SpO2/Pulse Rate

%Saturation
 Range 1% to 100%
 Low Perfusion 0.03% to 20%
 Accuracy Without Motion-Adults 70% to 100% ±2 digits
 1% to 69% unspecified
 Without Motion-Neonate 70% to 100% ±3 digits
 1% to 69% unspecified
 Low Perfusion 70% to 100% ±2 digits
 1% to 69% unspecified

Pulse Rate
 Range 20 BPM to 300 BPM
 Accuracy Without Motion 20 BPM to 300 BPM ±3 digits
 Low Perfusion 20 BPM to 300 BPM ±3 digits

Standards EN865:1997

Neonate specifications are shown for neonate sensors with YM1000. Saturation accuracy will vary by sensor type recommended by the manufacturer.
 Specification applies to monitor performance and was validated with Biotek and Nellcor simulators

Temperature

Probe Type Thermistor probe
 Range 26°C to 43°C (80°F to 110°F)
 Display Accuracy ±0.1°C(±0.2°F)
 Measurement units °C, °F
 Measurement modes Predictive, Monitored
 Predictive Mode One-time measurement in a single temperature reading which is displayed at the end of the brief measurement period
 Monitored Mode Continuous measurement over an indefinite period.
 Standards ASTM E1112-00, EN12470-3

Ordering Information

N NIBP only
 (included Pulse Rate and MAP)
 Standard(NIBP+Pulse Rate)
 NP NIBP / Printer
 NT NIBP / Temperature
 NTP NIBP / Temperature / Printer
 NS NIBP / SpO2
 NSP NIBP / SpO2 / Printer
 NST NIBP / SpO2 / Temperature
 NSTP NIBP / SpO2 / Temperature / Printer

Optional factory installed 10hrs battery

Note : You can select Lead Acid batteries or optional Ni-MH batteries in each configuration. For more information about the batteries refer to the Specification section.