



CONTEC®



CMS8000

Multi-parameter Monitor

Description

Patient Monitor CONTEC®
Model: CMS 8000 Plus; Purposes: Adults, Pediatric, Neonatal
Advanced alarm system and multifunctional use

Features

Visual and Audio alarms, adjustable
Patient management, name, age, sex, height, id, password activation
Shortcut keys for fast operation and access
Audio volume adjustable level from 1 to 10
Powerful data storage and management, Trend graph, Trend table, etc.
480 hour graphic and tabular trends of all parameters
240 seconds frozen waveforms
2000 pieces of NIBP record storage
1500 pieces of regular alarms review
1000 pieces of ARR alarms storage
Multi language menu: EN,CN,D,IT,FR,RUS,TR,BG,PL etc.

Physical Specification

Device dimension: 320 mm(L) x 150 mm(W) x 265 mm(H)
Weight: Standard Configuration 3.8 kg
(with battery)

Display

Color TFT LCD 12.1"
Resolution: 800 X 600 dpi
Traces Displayed: up to 8
Waveforms Displayed: up to 13
Various Working Interface Selectable:
Standard Monitoring Display
Big Chart
Large Font Intensive Care Display
Free User Customization
ECG Display
OxyCRG Dynamic View Display
Drug Dose Calculation Interface
Bed View Display
Sweep Speed: 6.25mm/s, 12.5mm/s, 25mm/s, 50mm/s

Environment requirement

Ambient Temperature: -20°C - 55°C (-4 - 131° F)
Humidity: 15% - 95% non-condensing

Power Supply

External Power Supply
100-240V AC, 50/60HZ; Fuse protection
Pmax=80VA
Internal Battery Power Supply
Type: Rechargeable Li-ion
14.8 V DC 2200 mAh
(dual battery optional)
14.8 V DC 4400 mAh (optional)

Battery working period:

up to 9 hours
Recharging time <150 minutes (2200 mAh)

RESP

Method: Trans-thoracic impedance
Operation mode: Auto/ Manual
RR Measurement range:
Adult: 0-120 rPM
Neonate/Pediatric: 0-150 rPM
Resolution: 1rPM

Apnea alarm threshold:

10s, 15s, 20s (default), 25s, 30s, 35s, 40s
Alarm: Yes, audible and visual alarm,
alarm events recallable
Band width: 0.2-2.5 Hz (-3dB)
Sweep speed: 6.25mm/s, 12.5mm/s, 25mm/s, 50mm/s

ECG

Lead type: Modular 5-lead and 3-lead selectable
Modular 10-lead (optional)
3 leadwire cable: RA; LA; LL or R; L; F
5 leadwire cable: RA; LA; RL; LL; V or R; L; N; F; C
Lead selection: 3-lead: I; II; III; 5-lead: I; II; III; aVR;
aVL; aVF; V
Gain selection: x0.125; x0.25; x0.5; x1; x2; x4; auto
Sweep speed: 6.25mm/s, 12.5mm/s, 25mm/s, 50mm/s
ECG HR Range:
Adult: 15-300bpm
Pediatric /Neonate: 15-350bpm
Resolution & accuracy: ± 1 bpm or $\pm 1\%$
whichever is greater
Filter: Diagnostic mode: 0.05-150 Hz
Monitoring mode: 0.5-40 Hz
Surgical mode: 1-20 Hz
Protection: Withstand 5000VAC/50Hz
Voltage in isolation against
Defibrillation and electrosurgical
interference

ST-Segment Detection:

Measurement range: -2.0mV ~ 2.0mV
Alarm range: -2.0mV ~ 2.0mV
ST-Segment Arrhythmia analysis and categorization: Yes
ARR Alarm: Audible and visual alarm, alarm events recallable
Pacemaker detection: Yes, and 5 types abnormal status
detectable
Advantages: Lead off alarm; EMG detection; Auto Net Repair®
IEC 60601-2-27

NIBP

Method: Automatic Oscillometric
Operation modes: Manual/Automatic/Continuous Auto measurement time interval: Adjustable
1 / 2 / 3 / 4 / 5 / 10 / 15 / 30 / 60 / 90 / 120 / 240 / 480 Minutes
Measurement unit: mmHg/kPa selectable
Measurement types: Systolic, Diastolic, Mean
Pressure range for Adults: Systolic: 40 - 270 mmHg
Diastolic: 10 - 215 mmHg
Mean: 20 - 235 mmHg
Pressure range for Pediatrics: Systolic: 40 - 200 mmHg
Diastolic: 10 - 150 mmHg
Mean: 20-165 mmHg
Pressure range for Neonates: Systolic: 40 - 135 mmHg
Diastolic: 10 - 100 mmHg
Mean: 20 - 110 mmHg

Leak test and pressure auto calibration: Yes

Over-pressure protection: Dual Safety protection
Resolution: 1mmHg
Accuracy: Max mean error: ± 5 mmHg
Max standard deviation: ± 8 mmHg

Alarm: Systolic, Diastolic, Mean
PR from NIBP: Measurement 40 ~ 240bpm
Resolution: 1bpm
Accuracy: 3bpm or 3% whichever is greater
Leak test and pressure auto calibration: Yes
IEC 60601-2-30

SpO2

Measurement & Alarm Range:
0 - 100%
Resolution: 1%;
Accuracy: $\pm 2\%$ (70-100%, Adult/Pediatric)
 $\pm 3\%$ (70-100%, Neonate)
PR Measurement and Alarm Range: 15 - 300bpm
Resolution: 1bpm
Sweep speed: 12.5mm/s, 25mm/s, 50mm/s
Refresh rate: 1s
Reusable finger SpO2 sensors: Adult (Standard); Pediatric (Optional) and Neonatal (Optional)

IBP (2 Channels, optional)

Measurement Pressure:
ART, PA, CVP, RAP, LAP, ICP, P1, P2
Measurement range: -50 - 300 mmHg
Resolution: 1 mmHg
Accuracy: $\pm 2\%$ or ± 1 mmHg,
whichever is greater (without probe)
5 μ V/ V/ mmHg;
Sensitivity: Impedance range: 300-3000 Ω
IEC 60601-2-34

EtCO2 (Mainstream and Sidestream, optional)

By Philips Respironics CAPNOSTAT®5 & LoFlo™ Technology
Range: 0 ~ 150mmHg; Resolution: 8 mmHg
Accuracy: $\pm 2\%$ 0 ~ 40mmHg,
 $\pm 5\%$ 41 ~ 70mmHg
 $\pm 8\%$ 71 ~ 100mmHg
 $\pm 10\%$ 101 ~ 150 mmHg
AwRR Accuracy: ± 1 rpm
Convenient design for intubated and non-intubated applications
Possible to work at low sample flow rate: 50ml / minute
Detailed specification refer to the user manual of Respironics ISO 21647

C.O. (Optional)

Method Thermomodulation
Measuring range:
CO: 0.1 L/min ~ 20 L/min
TB: 23°C ~ 43°C
TI: -1°C ~ 27°C
Alarm range: 23°C ~ 43°C

Temperature (2 Channels, 1 probe by default)

Measurement / Alarm range:
0-50°C (32-122° F)
Probe type: YSI (B Series) and CF-FI
Resolution: 0.1°C
Accuracy: $\pm 0.1^\circ$ C (without probe)
Channel: Dual-channel. Provide T1; T2; Δ T
IEC 12470-4

Thermal Recorder (Optional)

Built-in, direct thermal pixel array recorder
Up to 3 channels printing, 1, 2, 3 channels selectable Print speed: 25mm/s, 50mm/s

I/O Interface

USB Port,
RJ-45 Ethernet Port. IEEE 802.3,
VGA output (optional)
Nurse Call output
WLAN Access Point 802.11g 54Mbps Huawei® (optional)
3G Internet Connection

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