

ECG

Heartbeat Detection:
30 – 265 BPM, 0.2 mV to 5 mV

Minimum Signal:
0.2 millivolts

Heart Slow Limit:
40 – 130 BPM
(5 BPM increments)

Heart Fast Limit:
125 – 250 BPM, OFF
(25 BPM increments)

Loose Lead Threshold:
Base impedance greater than 1700 Ω,
nominal

HEART RATE

User Selectable Alarms:
Low Heart Rate and High Heart Rate

Bradycardia Options:
3 Beat, 6 Second Max.
5 Second Max. only

RESPIRATION

Range:
10 to 150 BrPM, 0.2 Ω to 5 Ω

Minimum Signal:
0.2 Ω

Apnea Delay:
10 - 30 seconds (5 sec. increments)

LINE POWER

120 VAC, 50/60 Hz, 0.5A

230 VAC, 50/60 Hz, 0.25A

BATTERY POWER

Dealer replaceable battery pack

Rechargeable NiCad

Battery Operation:
20 hours continuous use (average)

Recharge Time: 5 hours

Lithium Battery: For memory backup

ENVIRONMENTAL CONDITIONS

Ambient Temperature:
Operating: 41°F to 104°F (5°C to 40°C)
Storage: -40°F to 140°F (-20°C to 60°C)

Relative Humidity:
Operating: 15% to 95%, non-condensing
Storage: 0 to 95%
When moving the unit from a storage
location, wait at least one hour prior to use
to allow the unit to adjust to room
temperature.

PHYSICAL DIMENSIONS

Size:
2.5 in H x 9.15 in W x 7.27 in D
(6.2 cm x 23.2 cm x 18.5 cm)

Weight:
3.5 lbs (1.72 kg)

INDICATORS

Audio Alarm Frequency:
2900 ± 500 Hz

Audio Alarm Volume:
85 dB(A) at 1 meter

Breath Detection LED:
100 ± 10 milliseconds ON time for each
breath

Heart Detection LED:
100 ± 10 milliseconds ON time for each
heartbeat

ANALOG INPUTS

3-Channels, 0 to +1 volt input

MEMORY

Patient Log:
2000-event capacity including all human
alarm and non-alarm events, loose lead and
low battery events

Monitor Log:
2000-event capacity including equipment
alarms, monitor on/off's and monitor
setting changes

Displayed Events:
2.5 hours (average) of patient event
waveforms (apnea, bradycardias,
tachycardias and O₂ desaturation)
Two-minute and full event data capture
options
Three auxiliary channels (position, airflow,
pH and oximeter)

Memory Full:
Indicates when log or displayed events
memory is 75% full

ALARM AND NON-ALARM SETTINGS

Apnea:
10-30 seconds (5 second increments)

Bradycardia:
40-130 BPM (5 BPM increments)

Tachycardia:
125-250 BPM OFF (25 BPM increments)

Oxygen Desaturation:
50-95% (5% increments)

Loose Lead:
Base impedance greater than 1700 Ω,
nominal

Low Battery:
Battery voltage too low to continue
without charging

Battery Caution:
Minimum of 1-hour battery charge before
Low Battery

Power/Safe:
Alarms if improperly shut off

EXTERNAL CONNECTIONS

Patient:
3-Pin Locking
Modem:
Standard RJ-11, 6-Pin Telephone

Remote Alarm:
Sub-Miniature Phone Jack

RS232:
25-Pin "D" Connector

SIGNAL DETECTION

Transthoracic Impedance:
Two leadwires (LA-RA)

Optional Ground:
One leadwire (RL or LL)

Electrodes:
Disposable or reusable (carbon)

Sense Current / Frequency:
209 μA ± 15% at 76.8 kHz

DATA TRANSMISSION

Direct Connection to Computer:
6 minutes at 38.4k baud with full memory

Internal Modem to Computer:
10 minutes at 14.4k baud with full
memory

SAFETY CHARACTERISTICS

Chassis to Ground:
<15 μA

Patient Lead to Ground:
<10 μA

STANDARD COMPLIANCE

UL: 2601-1 (1994)
CSA: C22.2 No. 601.1 (1990)
IEC: 601.1 (1988)
IEC: 601-1-2 (1993)



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