

Features

Monitored parameters: Heart rate, respiration

Operating time with batteries: 24 h minimum

Displays: Graphical LCD display, 5 LEDs

Memory modes: Event, trend, full-disclosure and compliance

Alarm notification: Acoustic and visual

Data transfer: USB port

VitaGuard® VG 2100

The Heart Rate and Apnea Monitor

The VitaGuard® VG 2100 monitors respiration and heart rate of patients of all ages, thus giving medical personnel and caregivers the security they need, both in ambulatory and clinical environments.

Operation

The VitaGuard® VG 2100 generates acoustic and visual alarms when no respiration or movement is detected for a preset time, i.e. central apnea*, or when the measured heart rate violates the limits set by the operator. A technical alarm is emitted and a corresponding message displayed should an electrode become loose.

Extensive Data Storage

In the event of a physiological alarm, the measured values, their associated waveforms, and the monitor settings for selectable periods prior to and after the event are automatically stored. Over 400 such events can be captured in the event driven memory. Both manual and interval driven data storage is also possible. Furthermore, additional limits may be set to capture events silently, for example, if the silent lower heart rate limit is set to 100/min., then once the heart rate falls below this limit, the event will be silently registered by the monitor. Parallel to the event driven

memory, the VG 2100 incorporates a 144-hour trend loop memory and a 16-hour full-disclosure loop memory for continuous data storage.

Innovative Technology – Easy to Use

Considering all its features, the versatile monitor weighs only approx. 660 grams. The clearly arranged layout of the control elements ensures ease of operation, not only for trained clinical personnel but also for caregivers without previous medical or technical training. The numerous ways of powering the monitor, be it via the mains supply, the rechargeable power pack, or single-use batteries, allow for a wide range of applications.

Comprehensive Data Evaluation

The stored values and waveforms can be viewed directly on the monitor's high-resolution graphical LCD display. Alternatively, using GETEMED's VitaWin® software, the event, trend, full-disclosure and compliance recordings can be transferred to a PC via the USB port, visualized, evaluated and documented.



* obstructive apnea cannot be detected

VitaGuard® VG 2100

Technical Data

General

Weight	Approx. 660 g with power pack
Dimensions	205 mm x 135 mm x 45 mm
Power supply	4.8 V NiMH power pack or 4 x 1.5 V alkaline LR6 batteries, 9 V power adapter NA 3000-2
Power adapter NA 3000-2	Input: 100 ... 240 V, 50 ... 60 Hz, Output: 9 VDC
Power pack recharge time	< 6 h
Operating time	24 h with power pack or batteries
Replace battery message	Message on LCD display
Battery exhaustion message	Visual and acoustic warning
Keys	6 pushbuttons
ECG/respiration connector	8-pin miniature round connector, type BF input
USB connector	Mini USB to connect with a PC
Display elements	5 LEDs and a graphical LCD display (320 x 240 dots) with back- light when powered by external power adapter
Alarm warnings	Visual and acoustic

Apnea Monitor

Method	Impedance pneumography
Resolution	1/min
Apnea pause settings	8, 10, 12 ... 30, 32, 34 s
End of alarm condition	2 breaths within 6 s
Minimum amplitude	Approx. 0.2 Ohm
Signal recognition	Green LED and selectable beep tone

Subject to change

Heart Rate Monitor

Heart rate range	20 ... 270/min
Resolution	1/min
Bradycardia alarm settings	30, 35 ... 175, 180/min
Tachycardia alarm settings	100, 105 ... 250, 255 /min
Minimum amplitude	Approx. 0.2 mV
Selectable ECG leads	Einthoven I, II or III
Signal recognition	Green LED and selectable beep tone

Memory

Storage functions	Event, trend, full-disclosure and compliance memories
Storage capacity	400 events, 144 h trend, 16 h full-disclosure
Stored data	ECG, heart rate, respiration, basal impedance, status

Classifications

Product classification	IIb according to 93/42/EEC
Ingress protection	IP 21
German "Hilfsmittelnummer"	21.24.02.4014

Environmental Conditions

Operating temperature	5 ... 40 °C
Relative humidity	5 ... 95 %, non-condensing
Storage and transport temperature range	-40 ... 70°C

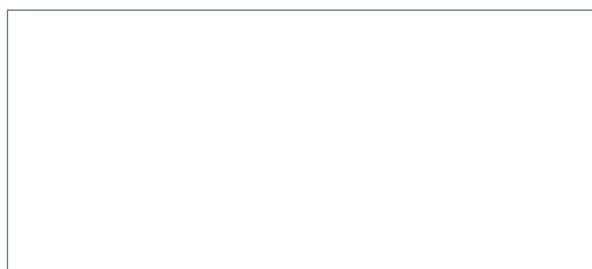
Standard Delivery

VitaGuard® VG 2100, ECG patient cable, ECG electrodes, power adapter NA 3000-2, NiMH power pack, user manual, pouch including belt, transport case

Evaluation Software (optional)

VitaWin® analysis software

Distributor



Manufactured by



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