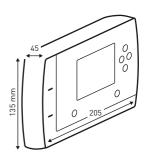
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Features

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 risk patients of all ages, thus giving medical personnel and caregivers the security they need, both in ambulatory and clinical environments.

Comforting Monitoring

Monitoring can be accomplished at any time and in almost every place. 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. A port is also provided for connecting the monitor to an external alarm unit or a nurse call unit.

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, single-use batteries, or using the car power adapter, 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.



VitaGuard[®] VG 2100 **Technical Data**

General

General	
Weight	Approx. 660 g with power pack
Dimensions	205 mm x135 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, 400 mA / Output: 9 VDC, 1.5 A
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	8-pin miniature round connector,
connector	type CF input
USB connector	Mini USB to connect with a PC
AUX connector features	Interface for modem, external alarm unit output, nurse call unit output and 2 analog inputs (AUX 1 & 2)
Display elements	5 LEDs and a graphical LCD dis- play (320 x 240 dots) with backlight when powered by external or auto- mobile power adapter
Alarm warnings	Visual and acoustic as per DIN EN 60601-2-49 and DIN EN 60601-1-8
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

Stored data	ECG, heart rate, respiration, basal impedance, status, analog inputs AUX 1 & 2
Classifications	
Product classification	IIb according to 93/42/EEC
Ingress protection	IP 21 according to DIN EN 60529
German "Hilfsmittelnummer"	21.24.02.4014
Environmental Condition	ons
Operating temperature 5 40 °C	
Relative humidity	5 95 %, non-condensing
Storage and transport temperature range	-40 70°C

Standard Delivery

Heart Rate Monitor Heart rate range

Resolution Bradycardia

alarm settings Tachycardia

alarm settings Minimum amplitude

Selectable ECG leads

Signal recognition

Storage functions

Storage capacity

Memory

25 ... 270/min 1/min

Approx. 0.2 mV

beep tone

Einthoven I, II or III

30, 35 ... 175, 180/min

100, 105 ... 250, 255 /min

Green LED and selectable

compliance memories

settings, 144 h trend, 16 h full-disclosure

Event, trend, full-disclosure and

Up to approx. 400 events, depend-

ing on pre-alarm and post-alarm

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

Optional Accessories

Manufactured by

Automobile power adapter NAK 3000-2, external alarm unit, clinic mounting frame, VitaWin® analysis software

Subject to change

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