



Features

7" colour display

Touch screen operation

Ergonomic design

Bluetooth® for communicating with medical and other end devices

GSM module for remote data transmission

Extensive interfaces

Dialogs for self-assessment and medication compliance

PhysioGate® PG 1000

Telemonitoring communication platform

Patients taking part in a telemonitoring program generally need to measure various vital-signs parameters on a daily basis in accordance with a specified procedure in order to treat their condition optimally. These measurements, sometimes including the electrocardiogram (ECG), blood pressure, weight and/or oxygen saturation, must be recorded by the patients themselves in their own home environment and transferred to the patient's doctor or a telemonitoring centre. When transferring such medical data, high standards governing data security and reliability must be adhered to.

Secure and flexible

PhysioGate® is a versatile communication platform intended for out-patient care. Data from various medical and non-medical end devices, such as ECG monitors, weighing scales and/or blood pressure monitors, etc., are acquired wirelessly via Bluetooth® and then further transferred in encoded form to patient files via the integrated GSM module or DSL connectivity using standardised protocols. Monitoring algorithms integrated into PhysioGate® analyse the information from the

measuring equipment and compare it with configurable limits. If limits are exceeded, PhysioGate® provides the option of sending an immediate message to the monitoring centre. Moreover, transfer of the acquired data can take place according to a specified time schedule or measurement plan. In this way, medical specialists can quickly respond and ensure optimum patient care.

Versatile and comfortable

In addition to the data acquired by the end devices, the high-resolution graphical interface provides dialogs for patients to manually enter subjective data, e.g. to answer questions regarding their well-being or medication compliance, as well as to view graphs of the previous measurements taken.

PhysioGate® enables:

- Fast daily availability of vital-signs data
- Quick response times by medical staff to changes in the patient's state of health
- Improved patient cooperation and compliance to the treatment thanks to their active role in their own care



PhysioGate® PG 1000

Technical Data

General	
Dimensions	220 x 133 x 65 mm
Weight	Approx. 650 g
Power supply	12 V DC via mains adapter (max. 30 W)
Controls	Touch display and home key
Display	7" TFT color display, 800 x 480 pixel, 16:9 format
Connectors	Antenna, Power supply, 2 x USB 2.0 Host, 1 x Ethernet 10/100 Mbit
Memory	128 MB DRAM memory, 512 MB NAND flash
Wireless transmission	
Wireless reception and transmission	Bluetooth® 2.0 , Class 1 GSM Quad band
Bluetooth HF frequency range	2.4 ... 2.5 GHz ISM band
Bluetooth HF output	0.5 ... 20 dBm
GSM frequency bands	Quad band: 850/900/1800/1900 MHz
GSM HF output	Class 4 (+33 dBm ±2 dB) for EGSM850 Class 4 (+33 dBm ±2 dB) for EGSM900 Class 1 (+30 dBm ±2 dB) for GSM1800 Class 1 (+30 dBm ±2 dB) for GSM1900

Classifications	
Product classification	Class I in accordance with 93/42/EEC
Ingress protection	IP 21
UMDNS code	17-602
Operating conditions	
Temperature	5 ... 45 °C
Relative humidity	10 ... 95 %, non-condensing
Storage and transport conditions	
Temperature	-20 ... 60 °C
Relative humidity	5 ... 95 %, non-condensing

Scope of deliver

PhysioGate®, mains adapter, user manual

Subject to change

Manufactured by



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