

PowerCube[®] Body



Proven quality for quick
and precise diagnostics

GANSHORN
MEDIZIN ELECTRONIC

PowerCube[®] Body

Establish a reliable basis for your diagnostics with the GANSHORN PowerCube[®]-Body!

The BodyScope[®]-Cabin

is bright due to glass on five sides and its elegant design creates a pleasant appearance.

A solid seat including a back rest mounted to the rear panel of the cabin offers your patients – in contrast for example to a swivel chair – a firm seating and ample room for their legs.



The wide seat, slanted toward the door, guarantees optimum sitting comfort and makes it easy for your staff to assist elderly and handicapped patients. Its solid construction made of safety glass and an aluminum frame, offers best conditions for optimum measurements. The maintenance-free electromagnetic door-lock opens automatically in case of a power failure, and if required, it can also be opened by the patient. An optimally co-ordinated compensation container makes also with strong wind perfect measurements possible.

Quality assurance at the touch of a button: BodyLiveCal

The patented calibration system BodyLiveCal simulates a patient, by calibrating alveolar pressure and lung volume dynamically and at the same time – as in a true measurement environment.

The likewise patented BTPS correction system makes resistance loops possible from the resting to the panting.



...exact!

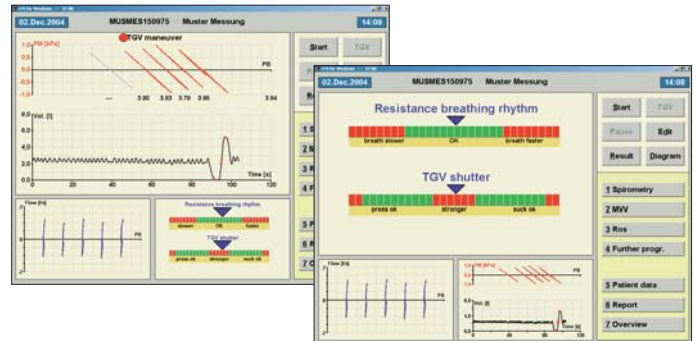
Customized bodyplethysmography: The GANSHORN-software LF8 for windows®

To determine spirometry, flow/volume curves, maximum voluntary ventilation MVV, lung volumes and capacities, intrathoracic gas volume TGV, residual volume RV, TLC, overall resistance, in- and expiratory partial resistance, conductance, specific resistance as well as a great number of secondary parameters. Inclusive determination of the breath resistance according to the occlusions method ROCC.

With integrated provocation test series to monitor bronchial provocation tests.

An upgrade allows – also later – the determination of the SB-CO transfer factor TCO, the Krogh factor KCO, the alveolar volume Va, as well as helium FRC and helium RV.

(Diffusion unit with Fi-gas bag see figure, optionally with demand valve)



So that your staff can totally concentrate on your patients!

A clearly structured screen and logical user guidance allow fast diagnostic procedures, improved patient guidance and a smooth workflow – even for personnel not particularly familiar with a computer. The course of the measurements, the evaluation or presentation of the measured parameters – everything can be configured according to your needs.

Motivating your patients!

Effective assistance programs ease the monitoring and guidance of the cooperation of your patient. This serves – in the same way as the animation programs for children and adults – for a continuously high diagnostic quality.

Tailored configuration for clearly structured diagnostic reports!

The output report is freely configurable, including the presentation of the desired parameters in numeric tables or color graphics for screen viewing, printing, intranet data transfer or file export (e.g. as an attachment to the medical record).

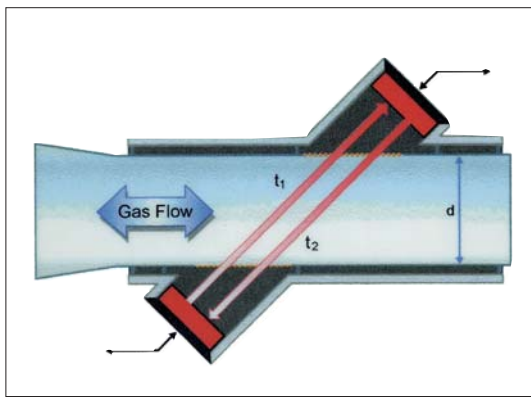
Keeping track of your data!

Storing the original measured data allows full control of all evaluations. This ensures that stored measurements can be re-evaluated and refined.



**Technical elegance for precise measurements and economic work:
the patented ultrasonic flow sensor!**

The high-precision ultrasonic flow sensor (optional) measures calibration-free during running operation. This saves time and work. The breathing tube made of anodized aluminum and stainless steel is robust and simple to handle.



Hygiene easily performed!

Ultrasonic or pneumotach: the PowerCube®-Body-flow sensors are easily exchanged and do not need to be dismantled for cleansing and disinfecting. After cleansing, both systems are ready for use, without long drying periods.

Easy - Reliable - Economical

Like all GANSHORN products, the PowerCube®-Body is known for its high degree of reliability. Simple handling and a clearly structured user interface serve a continuous high diagnostic quality.

The PowerCube® is flexible due to its modular design and service friendly.

**PowerCube®-Body
Measuring system for bodyplethysmography**

427 011 PowerCube®-Body- measuring system
including cabin, shutter unit with pneumotach Blendenspirozeptor, BodyLiveCal-system, software package LF8 for Windows, basic accessories, trolley with med. 230 V isolating transformer 1000VA, PC - configured for LF8, with TFT- monitor, CD-ROM, keyboard, mouse and color inkjet printer

Options

- 337 035** CO-Diffusion SB
- 257 020** Ultrasonic flow sensor
- 544 050** P O,1/Pmax
- 238 010** Rhinomanometry
- 546 010** Compliance
- 820 001** RAL special color for cabin (standard color RAL 5007 diamond blue)
LF8 is network-capable and has a network-interface as well as interfaces for intranets
- 870 010** intranet release and configuration, upon request with network database
- 871 010** Multiple workstation license to install several workstations

Technical Data PowerCube®-Body®

Active medical product of Class IIa
Automatic BTPS correction via »environmental module«
RS 232-infrared interface for 4 KV-separation between PowerCube and PC

Body cabin, material: safety glass, aluminum
Measurement module: PowerCube®
Measuring principle: volume constant
Door-lock: electromagnetic
Volume: 860 liters
Outer dimensions cabin: (d x w x h): 68 x 85 x 181 cm
Weight of cabin: 138 kg
Dimensions measurement module (d x w x h): 15 x 15 x 15 cm
Weight measurement module: about 3 kg
Dimensions complete measurement system (d x w x h): about 68 x 170 x 181 cm
Weight complete measurement system: about 190 kg
Flow sensor: pneumotach »Blendenspirozeptor«
Measurement principle: Differential pressure measurement with variable orifice.
Optional ultrasonic flow sensor (patented)
Measurement principle: Sound run time measurement
Power supply: 230 V/50 Hz
Power consumption of total measuring system: approx. 280 VA, max. 350 VA

**Developed, produced and quality-controlled according to
EN ISO 9001/12.2000 / EN ISO 13485/11.2000**



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