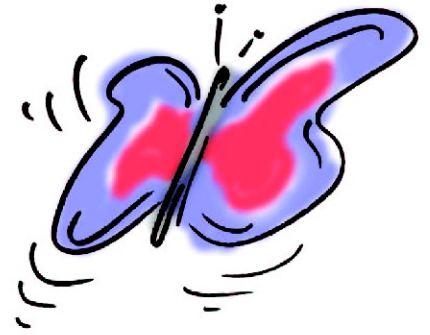


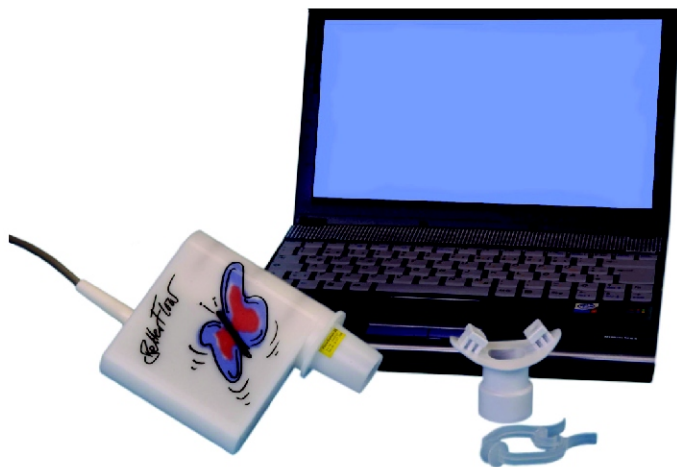


BetterFlow

Flowhandy ZAN100 USB



Computer-based spirometry system



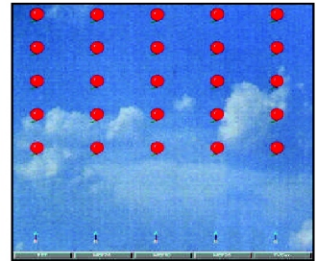
- Lightweight and handy
- Easy to install and operate
- ZAN FlowSensor:
Unique and easy to handle
- Expandable system

Standard features

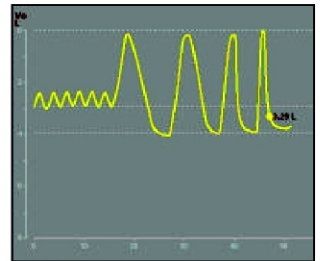
Spirometry, flow/volume loops, children animation programs, pre/post comparison, trend analysis, selectable & programmable predicteds, data management, programmable result tables & report forms, results via Internet Explorer[®], and much more!

Options

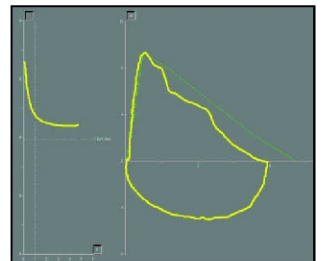
Broncho-provocation, Airway resistance Rocc, respiratory drive P0.1, respiratory muscle strength Pimax & Pemax, maximum voluntary ventilation MVV, rhinomanometry (mask or olive version), DLCO, Body Plethysmography network & medical information system interfacing, etc.



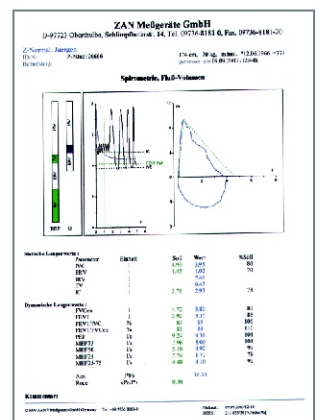
Children animation, balloons



Spirometry recording



Flow/volume loop & FEV1 curve



Report sample





Technical specifications

Flowhandy ZAN100 USB / Shutter (Rocc/P0.1)

Mechanical data	Dimensions Weight	100mm x 90mm x 45mm 250g
Electrical data	IP protection type Classification according to MDD Application component type Interface to computer Power supply Power consumption	IPX1 IEC 529 IIa 93/42/EWG dated June 14, 1993, app. IX BF according to VDE 0750 (DIN EN 60601-1) USB via USB port <50mA
Flow	Flow transducer Measuring principle Measuring range Max. linearity error Resistance Effective dead space Temperature sensitivity Humidity sensitivity Flow resolution Accuracy	ZAN FlowSensor 2a Differential pressure with variable diaphragm ±0.02 - ±20L/s <2% 0.05kPa (<15L/s) <50mL 0.5%/°C, software compensated <2% at 0 - 99% humidity <1mL/s 0.05 - 15L/s, ±2%
Volume	Volume Volume resolution Accuracy Back pressure	0 - 20L <5mL 2% <0.6kPa at 12L/s
Mouth pressure measurement	Pressure transducer Pressure range Accuracy Resolution	Semi-conductor (differential pressure) 0 - 7kPa 0.2%, full scale 16Bit
Shutter	Dimensions Weight IP protection type Power supply Power supply, ZAN AccuSwitch Effective dead space Effective dead space incl. FlowSensor Additional dead space towards FlowSensor Resistance	180mm x 50mm x 80mm 420g IPX1 IEC 529 12V / max. 600mA via ZAN AccuSwitch 5VDC / 300mA via USB interface, computer 47mL 80mL 30mL 0.7kPa at 12L/s
Environm. conditions	Operating conditions Explosive atmosphere	Temperature: +10°C to +40°C Rel. humidity: 20% to 90% at +20°C (no condens.) to 70% at +40°C (no condens.) Barometric pressure: 900 to 1060hPa This device may not be operated in an explosive or flammable atmosphere.

PC system *(not included)

Minimal requirements	Proven standard of all peripheral devices Processor Operating system Interface RAM memory Hard disc drive Disc drive Graphic board, vertical frequency Monitor Monitor resolution Printer resolution, black & white / color	DIN EN 60950 Pentium 2, 266 MHz WIN 98 SE (Second Edition), WIN 2000, WIN XP as of USB1.0 16MB 1.2GB CD-ROM >=90 Hz 15" / 37cm color monitor, low-radiation 800x600 pixel 360x360dpi / 600x300dpi
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Further ZAN-Products



ZAN300 CO-Diffusion



ZAN530 Adult-Bodyplethysmograph
incl. CO-Diffusion



ZAN530 Child-Bodyplethysmograph



ZAN680 Cardiopulmonary
Exercise Testing

ZAN quality management system according to
DIN EN ISO 9001: 2000 and DIN EN ISO 13485: 2003.



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