

ESSENTIAL TOOL FOR CARDIOPULMONARY DIAGNOSTICS

Complete assessment for the differential diagnosis and sportsmen condition evaluation

YOUR ADVANTAGES

- 🕒 MAINTENANCE FREE - ultrafast and long-life CO₂ sensor.
- 🔧 DO IT YOURSELF - O₂ sensor can be changed within a minute and without a technician.
- 🏆 GOLD STANDARD - In full compliance with the ATS recommendations.
- 🔄 FLEXIBILITY - Analysis of the results in a preferred way - 9 panel Wassermann diagram or individual setup of graphs.
- 👤 USER-FRIENDLY - Automatic determination of anaerobic threshold by set method or manually.

TECHNICAL DATA

Flow-Measurement

Principle	Pneumotach (variable orifice)
Range	0 to ± 18 l/s
Accuracy	< ± 3% or 50 ml/s (the larger value applies)
Resolution	PEF: ± 5% or 150 ml (the larger value applies). Meets ERS/ATS standards +10 ml/s

Volume-Measurement

Principle	Digital Integration
Ventilation	300 l/min
Accuracy	± 2%

O₂ Measurement

Principle	Chemical Cell
Range	10 to 35% O ₂
Resolution	0.01% O ₂
Rise time	80 ms
Accuracy	± 0.1% O ₂

CO₂ Measurement

Principle	Ultrasound
Range	0 - 15% CO ₂
Resolution	< 0.01% CO ₂
Rise Time	< 100 ms
Accuracy	± 0.1% CO ₂

Electrical Requirements

Power Consumption	Max. 30 VA
Voltage	24V
Frequency	50 to 60 Hz

Standards

Quality Management	ISO 13485
FDA	510(k) market clearance
MDD 93/42/ECC	CE Marked
Electrical safety	EN 60601-1 (Third Edition)



FEATURES

12 chanel ECG

Use a full 12 chanel stress ECG or a pulse belt for sports application

Non-invasive measuring

The only non-invasive method of measuring cardiac output

Patient Management

Easy patient management handling due to a shared database with other GANSHORN products or due to a full integration into SCHILLER SEMA



ADMINISTRATIVE PROGRAMS

	STANDARD	OPTION
■ SQL Database	✓	
■ Report Generator	✓	
■ Multiuser license		✓
■ User Predicted Values	✓	
■ GDT data transfer		✓
■ HL7 Interface		✓
■ DICOM		✓
■ Worklist		✓

PROGRAMS & FEATURES

	STANDARD	OPTION
■ Ergospirometry	✓	
■ Forced Spirometry/Flow-Volume	✓	
■ Slow Spirometry	✓	
■ Offline Input of bloodgases (e.g. lactate)	✓	
■ MVV (Maximal Voluntary Ventilation)	✓	
■ Cardiac Output		✓
■ Calorimetry		✓
■ SpO2		✓
■ 12-channel stress ECG		✓
■ Polar pulse belt		✓
■ Blood pressure measurement		✓
■ Ergometer		✓
■ Treadmil		✓
■ Evaluation Software LFSport		✓

