

Technical Specifications

Flow meter	PinkFlow
Type	PPF-18
Principle	Symmetric and averaging Pitot tube
Flow range	±18 l/s
Accuracy	±2% or 50 ml, whichever is greater
Dead space	36 ml
Resistance	60 Pa/l/s @ 15 l/s
CO2 gas analyzer	NDIR
Range	0-10%
Accuracy	0,05%
Response time T90	130 ms
O2 gas analyzer	PRE-101/cc: Chemical cell PRE-101/pm: Paramagnetic oxygen sensor
Range	0-100%
Accuracy	0,05%
Response T90	130 ms
ECG	
Leads	12 Standard + 3 Frank
Resolution:	2.5 uV/bit 12 bit A/D
Size without patient circuit	Height: 130 mm Wide: 260 mm Long: 390 mm
Weight	4 kg
Power supply	90 - 260 VAC 50/60 Hz
Power consumption	60 VA

PRE-201

CARDIO PULMONARY EXERCISE SYSTEM



Uniquely new solution
the wireless ECG and
ABPM during exercise

Cardiopulmonary exercise testing provides a global assessment of the integrative exercise responses involving the pulmonary and cardiovascular system

Ergospirometry is increasingly being used in a wide spectrum of clinical applications for the evaluation of undiagnosed exercise intolerance and exercise-related symptoms



System configuration with treadmill



Swivel arm for the hanging the device which provides the shortest gas sampling capillary



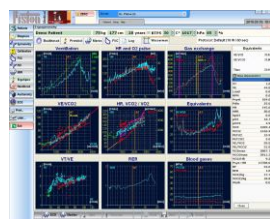
Patient circuit of optional mixing chamber



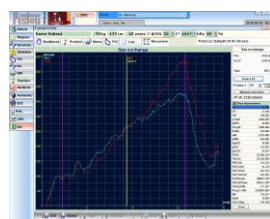
PRE-101/pm Non-depleting paramagnetic oxygen sensor



Ergospirometer exercise test



Graphic representation according to Wassermann



Evaluation of the test with moveable marker

Measurement modes

- Breath by breath gas analysis
- Mixing chamber gas analysis (optional)
- FVC measurement
- IVC measurement
- MVV measurement
- Normal ECG recording

Comfortable solutions

- Extremely small and light patient circuit
- PinkFlow flow meter without any moving parts and electrical connection
- Single use or disinfectable patient circuit
- Automatic calibration and self test

Exercise modes

- Bicycle and treadmill
- Selectable and user definable exercise testing protocols
- Progressive incremental bicycle exercise protocols Step and Ramp
- Maximal incremental treadmill protocols Bruce protocol and Balke protocol
- Constant work rate protocol
- Multistage exercise protocol with a pseudo steady state at each level
- Discontinuous protocol

Measured Parameters

- Ergospirometer exercise test: WR, VE, VT, fR, VO₂, VO₂max, VO₂max/kg, VCO₂, VCO₂max, RER, AT, Syst, Dia, HR
- Forced ex and inspiration: FVC, FEV*0.5, FEV*1.0, FEV*0.5/IVC, FEV*0.5/FVC, FEV*1.0/IVC, FEV*1.0/FVC, PEF, FEF*25-75%, FEF*75%, FEF*50%, FEF*25%, FET, MTT, FIVC, FIV*0.5, FIV*1.0, PIF, FIF*25-75%
- Static vital capacity: IVC, IRV, ERV, TV, SVC
- Maximal Voluntary Ventilation: MVV, MVV*f, W