



Ergocard CPX Clinical & Professional models

Cardiopulmonary exercise testing

www.medisoft.be

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Exercise testing system with accuracy, high performance, scalable and easy to use.



The ideal solution for your cardiopulmonary exercise (CPX) testing needs. Two models to meet any requirements from any clinical and sports medicine applications and research.

The flow transducer is a well-known Pitot tube, the Prevent*. The Prevent* is lightweight, shock resistant, insensitive to humidity, turbulence and temperature. The flow measurement is accurate and linear up to 15L/s, from pediatrics to high range athletes/sports medicine application. Can be used with face mask or mouthpiece. Sample line and flow tubes are now all included in a single Umbilical for improved ergonomics.

	Ergocard CPX Clinical	Ergocard CPX Professional
Prevent* Pitot Tube	●	●
Infrared CO2 sensor	●	●
Electrochemical O2 sensor	●	—
Laser O2 sensor with 7 years life span	—	●
Full weather station	●	●

More than 10 different tests can be implemented.

ExpAir software assists and guides the operator before, during, after the test, featuring:

- Customizable protocols
- Easy gas and volume calibration
- Breath-by-breath signal recording
- Offline entry for blood gas analysis
- Automated detection of ventilatory thresholds using V-Slope and 3 lines methods
- Customizable printing reports
- Comprehensive graphical display

Ideal for : Pulmonary and cardiac rehabilitation, heart-failure assessment and follow up, exercise prescription, sports medicine, physiology and research,

Options available for both models, Clinical & Professional :

- Exercise flow-volume loop with flow-limitation evaluation, IC change during Exercise.
- Interface and control of most Bike Ergometers and Treadmills.
- Heart rate chest belt.
- Advanced integrated 12 leads ECG module, for resting and exercise applications, one touch operation with complete ECG analysis, arrhythmia detection and analysis, real time printing.
- SpO2 integrated module.
- Automated Blood pressure external Tango® option, with exercise artifact rejection.
- Compatibility with multiple ECG.
- Analog Input/Output.

Can be combined with the following devices:

FeNO+, FOT Resmon Pro, BodyBox, HypAir, Micro 5000, Micro 6000, SpiroAir.



Additional options, available on Professional version :

- Re-breathing Indirect Fick Cardiac Output (Qc) test.
- Static lung volumes measurements (TLC, FRC, ERV etc.) by Multi-breath Nitrogen Washout module.
- Hypoxic and Hyperoxic testing mode.
- Indirect calorimetry with face mask.

ExpAir, the Medisoft software

The most intuitive, user-friendly and complete software package available today, for all Medisoft devices.

- Data storage allowing re-evaluation and calculation of test parameters, with export and HL7 messaging capabilities to ease integration to Hospital systems.
- Trend data reporting of any parameter.
- Interpretation function (GLi 2012).
- Comments and «offline» input.
- Online data transfer.
- Report designer.
- Predicted value editor, new interpretation algorithm based on LLN, ULN, Z-score and percentile.
- Choice of languages and units of measurement.
- Bronchial challenge testing software included.
- Manual entry of blood gases.
- Full calculation function: display of calculation points with manual correction capability.
- Quality control automated software, diagnostic functions and full program control.
- Remote assistance using Teamviewer™.

Technical specifications :

Physical Dimensions	Module	Trolley
(H x W x D) cm	13,7 x 40 x 34	Standing - 140 x 73 x 55 Seated - 120 x 73 x 55
Weight	± 8 Kg	± 35 Kg

Power supply :	230 VAC 50 Hz or 115 VAC 60 Hz
Power consumption :	± 62 VA (module)
Warmup time :	20 min.
Meets all electrical safety requirements :	IEC60601-1
Classification :	Ila
CE MARK :	CE 1434
MDD :	93/42/EC and harmonized standards
Computer interfacing :	Windows 10™ Pro Serial interface RS232 / USB 2.0 / 3.0

Ambient conditions for use

Temperature :	10 - 35°C
Relative humidity :	25 to 85 % (non condensed)
Barometric pressure :	No restriction



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Intended users : Medical diagnostic device, Class IIa, should only be used by doctors, physiologists, trained respiratory technicians/nurses or under supervision of such. Data obtained must be interpreted and reported by trained medical staff only.

