EASY TO USE

MS-Windows seven and above:

- User friendly, short learning curve
- Versatile for every application
- Detailed PDF report and data export to CSV and MS-Excel files

Easy to handle hardware:

- Few connections or wireless
- Portable or handheld
- No preventive maintenance



Economical day-to-day use:

- 6 PhysioFlow® PF50 high performance electrodes per
- Low cost compared to other technologies
- Saves valuable time for operators

An attractive business model:

- No indirect costs (catheter complications)
- May improve patient outcome
- Potential direct or indirect revenue generator



Fewer constraints:

- Complete safety for the patient
- No risk of infection or injury
- Saves time for patient care

More flexibility:

- Extensive applications (measurements at rest and during exercise)
- Snapshots or continuous monitoring
- Can be used routinely by nurses and/or technicians



Windows[™] is a trademark of Microsoft Corporation

€ 0459 www.physioflow.com



Validations:

- Unmatched reproducibility and sensitivity
- Good agreement with reference methods at rest (incl. in severely ill patients) and during exercise
- Proven clinical value even in difficult patients and challenging measurement conditions

High quality standards:

- Excellence in manufacturing and customer service
- ISO 9001/13485 standards
- Market approvals in the USA (FDA), Europe, Japan, China, Australia, among others

UNIQUE FEATURES

- Potentially more efficient than other invasive or noninvasive hemodynamic systems thanks to similar accuracy, but better reproducibility and sensitivity
- Offers a combination of parameters that enables accurate evaluation of any hemodynamic condition For instance: fluid status and optimization can be efficiently assessed and guided
- Features a display that enables a quick and efficient evaluation of the patient's hemodynamic equilibrium: the Hemodynamic Cross
- The analysis of signal abnormalities is potentially extremely useful for the early diagnosis of severe pathologies while they are still reversible.

The combination of the low cost and ease of use, reduced limitations, zero risk and high performance makes PhysioFlow® the technology of standard of care.



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Contact:

FRANCE

Manatec Biomedical 44, rue de Laborde 75008 Paris

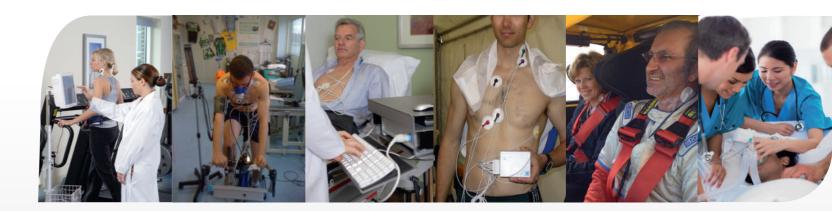
Find us on Facebook and Linkedin info@physioflow.com Tel: + 33 3 72 82 50 00 Fax: + 33 1 30 74 46 48



PhysioFlow[®] Hemodynamics Redefined™

Signal Morphology-based Impedance Cardiography (SM-ICG™) A new era in noninvasive Cardiac Output monitoring

THE ONE THAT WORKS!



The First

Exercise at all levels and demanding medical applications

The Only

Proven non inferior to Thermodilution and superior to conventional ICG (US-FDA)

The Best

Measures the heart flow directly and does not use an arterial line or a finger pulse

PhysioFlow® Parameters

Stroke Volume/Index

Heart Rate

Cardiac Output/Cardiac Index

Contractility Index

Early Diastolic Filling Ratio (Preload Index)

Systemic Vascular Resistance/Index (Afterload)

Left Cardiac Work Index (surrogate for MVO2)

Ventricular Ejection Time

Ejection Fraction (est.)

End Diastolic Volume (est.)

NEW! Aortic (Vascular) Stiffness and Distensibility

www.physioflow.com

For Multiple Validated Applications

Critical Care/Anaesthesia/Fluid Management

Emergency Medicine

Cardiology/Heart Failure/6MWT/Pacing

Cardiopulmonary Rehabilitation

COPD/6MWT/Pulmonary Hypertension

Internal Medicine/Hypertension

Hemodialysis

Obstetrics

Research and Clinical Studies

Physiology/Sports Medicine

Training Optimization/Overtraining

Technology

- Analysis of beat by beat heart impedance waveforms obtained noninvasively (6 chest surface electrodes)
- Elimination of the problematic impedance baseline (Z0) in the calculation of stroke volume
- HD-ZTM high performance signal stabilization filter for optimal motion artifact cancellation

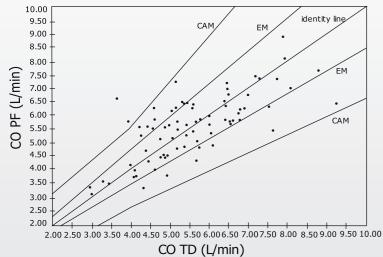
Validations

- 40+ peer-reviewed validations and application studies, showing Sensitivity, Reproducibility and Accuracy
- US-FDA approved technology, predicate device is thermodilution
- Proven superiority compared to other ICG or bioreactance devices
- 500+ users in 45+ countries for the most demanding applications at rest and during exercise

Applications

- 13+ useful hemodynamic parameters including preload, contractility and afterload
- Provides efficient fluid status assessment and management
- Early diagnosis thanks to the evaluation of signal abnormalities
- Powerful software for data display, trending, analysis and reports
- Critical care, cardiology, internal medicine, pulmonology, physiology and sports medicine

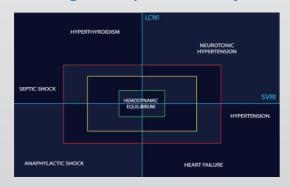




PhysioFlow® vs.TD N=80 bias=0.08L/min SD=0.96L/min EM=TD Error Margin (20%) CAM = Clinical Acceptance Margin (30%) TD=Thermal Dilution Method

Impedance Signals + Abnormalities

A Breakthrough Concept: the Hemodynamic Cross



A graphic representation of the Vascular Resistance/Cardiac Work equilibrium, for more accurate and faster diagnosis and therapy follow up

The first and only technology fully validated for demanding medical applications and during exercise

The well established PhysioFlow[®] Signal Morphology-based Impedance Cardiography (SM-ICG[™]) technology has been fully validated during the last fifteen years, resulting in more than 40 international peer-reviewed publications and a market presence in over 45 countries.

Its accuracy is comparable to invasive techniques and its user-independent reproducibility and sensitivity are unsurpassed. PhysioFlow® pushes the limits of noninvasive cardiac output monitoring in general and thoracic electrical bioimpedance in particular by opening more arenas where continuous noninvasive Cardiac Output measurements are made possible: exercise at all levels, obesity, thoracic fluid overload, COPD, low cardiac outputs etc.

PhysioFlow[®] Enduro[™]: From the lab to the field



PhysioFlow® has been further developed to include the latest advances in electronic and signal processing technologies. The result is PhysioFlow® Enduro[™], the first holter-size wireless cardiac output monitor for real time recordings or use as data logger. A new filter technology for high performance noise cancellation (HD-Z[™]) is available as well. The combination of advanced hardware and embedded DSP software enables new applications in the field for trainers and exercise physiologists and more sensitive measurements for cardiac patients tested on treadmills.

PhysioFlow[®] Q-Link[™]: The missing link in your diagnosis

PhysioFlow[®] Q-Link[™] is connected to a computer via a USB port that provides communication and power. Its small size, easy set-up and user-friendly features combined with a cutting edge technology is a revolution in the world of hemodynamically guided diagnosis and therapy.

Based on the high-tech wireless Enduro[™] technology, Q-Link[™] features reduced costs and enhanced user friendliness (no batteries and computer connection through a simple USB port).



PhysioFlow[®] Eorta[™]: A breakthough software for vascular measurements



The first and only patented technology that uses thoracic impedance variation signals to measure aortic stiffness, distensibility and intra-aortic resistance to the flow. It is validated (at rest) against Pulse Wave Velocity and MRI in hypertensive, heart failure and ageing patients. Eorta is user friendly and not operator dependent.