Finapres Medical Systems is the world’s pioneer in developing, manufacturing, marketing and sales of non-invasive hemodynamic monitoring systems.
Applications

**Cardiology**
Cardiologists around the world are using Finapres Medical Systems devices. Our equipment offers fast, easy to use and safe non-invasive cardiovascular evaluation. Powerful, clinically validated algorithms and advanced patented technology are used to improve patient wellbeing and to perform cost effective clinical research.

**Neurology**
For over 30 years Finapres systems have been used by neurologists and researchers to better understand autonomic failure, syncope and baroreflex sensitivity (BRS). Many studies using Finapres systems have been performed to show subjects’ neurological reactions to changing conditions, such as autonomic failure. The Finometer® and Portapres® systems are proven tools for diagnosing syncope in patients and for documenting progress due to treatment.

**Physiology**
Neurophysiologists, cardiovascular physiologists, sports physiologists, psychophysiologists as well as physiologists in other fields have a special interest in hemodynamics in relation to their expertise. Finapres devices are used in many research settings because of their accuracy, optimal trending possibilities and portability. Our Portapres® is used by NASA in space to evaluate the changes in the cardiovascular system during the microgravity conditions of spaceflight and aboard the ISS (International Space Station). On a daily basis our equipment is used in a range of services such as neurological, sports and occupational rehabilitation.

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Our first non-invasive beat-to-beat blood pressure monitor was introduced in the late 1970s. This technological breakthrough was immediately adopted by leading researchers and clinicians in major medical institutions and space agencies around the world. FMS has already successfully introduced its third generation of non-invasive beat-to-beat hemodynamic monitors, which are capable of monitoring up to 15 different cardiac parameters, and its products are being used in over 45 countries. Improvement of these non-invasive techniques and methods is a continuous process at FMS. The head office of Finapres Medical Systems is located in Amsterdam, The Netherlands.

FMS was established in 2002 as the spin off of the TPD Biomedical Instrumentation R&D activities of TNO. TNO was engaged in research and development of methods and instruments for medicine and bio-sciences, among others in the properties and dynamics of the cardiovascular system. This resulted in the development of the Finapres® technology, a method for the most accurate and robust continuous non-invasive measurement of finger blood pressure, and Modelflow®, a model based computation of cardiac output, as implemented by FMS.

More than 30 years ... FMS builds on more than 30 years experience in non-invasive beat-to-beat continuous blood pressure monitoring. The original equipment has evolved from the Ohmeda Model 2300 to the current Finometer® and Portapres® models. The models are positioned for optimal accuracy, optimal trending and optimal portability. Many top research institutes as well as prominent clinics like NASA Johnson Space Center, John Hopkins Hospital and Mayo Clinic are using Finapres Medical Systems equipment.

The accuracy with respect to blood pressure measurements has been found in comparative studies with intra-arterial blood pressure as the reference1,2). Recently the Finometer® Pro passed the AAMI/SP10 and BHS3) standards with stethoscope measurements as reference. The Modelflow® cardiac output has been validated against thermodilution cardiac output in patients undergoing coronary artery bypass surgery,4)

Products

Portapres®
Optimal portability
The Portapres® is the ambulatory Finapres technology solution. The Portapres® offers on top of standard ambulatory blood pressure monitoring (ABPM) insight into hemodynamic parameters such as stroke volume and cardiac output. For almost 20 years the technology has proven itself in clinical settings, high altitude research on mountain heights and in space by top scientific institutes like NASA. Data can be stored and retrieved using the BeatScope® software. Also wireless solutions can be offered to monitor subjects remotely.

Finometer® MIDI
Optimal trending
The Finometer® MIDI offers an optimal solution for hemodynamic trending in protocols when blood pressure changes are more important than absolute values. The device display provides current numerical parameters only. The BeatScope® software installed on either a PC or laptop provides detailed insight and graphs. The Finometer® MIDI is used in a wide range of applications in hospitals, clinics, and research institutes. An optional ECG module is available for the Finometer® MIDI.

Finometer® PRO
Optimal accuracy
The Finometer® PRO is a stand-alone solution for accurate non-invasive beat-to-beat blood pressure monitoring. The Finometer® PRO incorporates the patented Modelflow® technology providing hemodynamic parameters such as stroke volume, total peripheral resistance and cardiac output as well as pulse rate (variability) and baroreflex sensitivity analysis. The Finometer® PRO is widely used in clinical settings and advanced scientific research. The absolute accuracy of the Finometer® PRO can be calibrated with an upper arm cuff measurement using the patented Return To Flow (RTF) technology. Recently the Finometer® passed the AAMI/SP10 and BHS protocols. Optional software offers online monitoring, storage, analysis and review of acquired data. The Finometer® PRO can be used in combination with the optional ECG module.

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