



About us

McRoberts is an innovative and flexible organization with 25 years of experience, and one of the leaders in ambulatory monitoring of physical activity. We apply our knowledge of human movement and analysis of raw data to facilitate simple solutions in healthcare, pharmacy and research for evaluating physical functioning.

Founder and managing director of McRoberts is **Rob van Lummel**. His interest in the combination of movement, technology and ICT resulted in the foundation of McRoberts in 1988. In cooperation with scientific partners, epoch-making work has been realized in the development of ambulatory monitoring of physical activity. His wife, **Corinne Meurs**, who has been an active physiotherapist, joined the company in 2006

Get in touch

Customer service

If you have any support related questions please contact us at:

Email: support@mcroberts.nl

Sales

If you'd like more information about our products please contact us at:

Email: sales@mcroberts.nl

Administrative

If you have any questions regarding your invoice or other administrative questions please contact us at:

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DynaPort MoveMonitor®

**Ambulatory assessment of human
movement in daily
life.**

In clinical practice, clinical trials and
research

MoveMonitor

The MoveMonitor will enable you to easily assess the physical activity status of your subjects. With one small device, worn in an elastic strap on the lower back, you will be able to measure your subjects' physical activity for up to 14 days. The MoveMonitor consists of a hardware unit, managing software, and one or more chosen analysis modules, accessible through our web service.

- ✓ Measuring up to 14 days
- ✓ Sensors: accelerometers, air pressure sensor, magnetometer and temperature sensor.
- ✓ Unobtrusive design
- ✓ Extensively validated
- ✓ FDA and EMA approved medical device
- ✓ Platform for multi-center studies
- ✓ Graphical and Database output
- ✓ Cloud-based analysis and storage of data
- ✓ Conform ISO-13485



Analysis Modules

Physical Activity

- Being physically active is more and more acknowledged as a way to diminish or prevent disability. Objective and accurate information about the physical activities in a patient's daily life is of fundamental importance for research as well as for clinical practice. Furthermore, the reports of the results facilitate patients' knowledge and self-management.

Energy Expenditure

- The energy expenditure (EE) of a man or woman over a whole day is often divided into different components and can be individually determined. These are: basal metabolic rate (BMR), diet induced thermo genesis (DIT), and physical activity (PA). The rates of EE during physical activity vary depending on intensity, duration, the frequency of the activity, and on the body mass and fitness of the person performing the activity.

Physical Activity Recommendations

- The average Energy Expenditure (EE) of males and females over a whole day is decreasing. This decrease in physical activity raises major health concerns. Only a small percentage of men and women achieve the moderate activity guidelines; most are either sedentary or are only moderately active on an irregular basis. Half of all adults believe they are active enough to stay fit. However, self-report of physical activity levels is prone to social desirability bias and recalling physical activity is a highly cognitive task.

Sleep Movements

- A good night's rest is essential to quality of life. Insufficient or poor quality sleep may result in drowsiness and loss of concentration, which adversely affects productivity and well-being during the day. After having sleep problems for an extended period of time, existing illness-related problems can worsen or cause extra difficulties for the patient. For patients suffering from Parkinson's disease, COPD, or from the effects of a CVA

these are familiar problems. The Sleep Movements Module of the MoveMonitor classifies movement information during night's rest. COPD, or from the effects of a CVA these are familiar problems. The Sleep Movements Module of the MoveMonitor classifies movement information during night's rest.

Clinical Reference

- A report for use in daily clinical practice was developed in collaboration with researchers and physicians in the field of COPD and Asthma. The report provides a small set of parameters with reference values of COPD patients and can serve as a feedback tool for patients with COPD or Asthma. The coloring of the outcomes makes it easy to quickly identify how active a patient is and to see how he or she scores compares to its peers.

Patient Feedback

- The Patient Feedback report offers the most comprehensive and accessible overview of a week of activities. A Gantt chart reflects all postures and performed activities during the week and the corresponding MET-levels indicate the associated intensity levels. Daily routine and activity patterns can be easily identified and fed back to the patient.

General

<u>Dimensions</u>	106.6 x 58 x 11.5mm
<u>Weight</u>	55 grams
<u>Maximum measurement duration</u>	14 days
<u>Storage medium</u>	1 Gb Flash memory