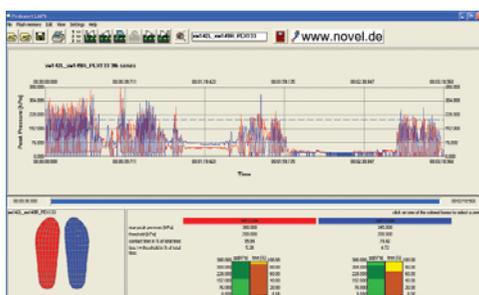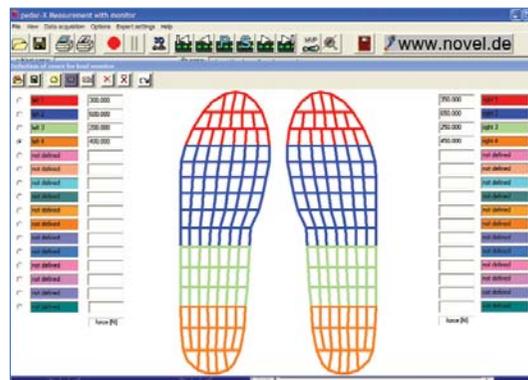## pedoport® LMP

pedoport® LMP

The pedoport® LMP software monitors the peak pressure of four selected areas of the left or the right foot. The peak pressure data is calculated from all individual sensors in the respective area and stored in the pedar®-x flash memory for each area. Calibration can be done for each individual sensor by using trublu calibration devices. The selection of the four areas of interest and the scanning frequency is possible in a very user friendly way.

pedoport® LMPS

pedoport® LMPS

The pedoport® LMPS software functions like the pedoport® LMF software but also supplies output signals when an selectable peak pressure in an area is reached. This will help a patient not to overload areas on risk, e.g in a Diabetic Foot.

pedoport® IFS

pedoport® IFS

The pedoport® IFS (Intelligent Foot Switch) software is embedded into the pedar®-x software. It monitors total force or peak pressure in 8 selectable areas and supplies output signals for each selected area.

The signals can be sent to EMG or gait analysis systems to synchronise these systems data with the ground contact of individual parts of the foot.

For the first time an accurate adjustment of "foot contact" is possible because the switching signal can be set not only to the threshold but also to an exact location.

For the hardware, please refer to pedar®-x in-shoe measuring system.

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software

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art in science

pedoport® software

Long-term load monitoring is an important part of post surgery treatment for patients who are advised by health care professionals to load the rehabilitating extremity with a specific load to stimulate bone growth. The individual is advised to load the limb with certain force without overloading it.

In occupational medicine the load on workers who transfer heavy product needs to be monitored. Load can also be a significant parameter on the human body in biomechanical research. Long-term pressure monitoring for people who are at risk for foot ulceration may help to prevent amputations.

In these examples, it is important for the individual to move freely during routine work and for the monitoring to be conducted over a long period of time without interruption.

The pedoport® software family operates the pedar®-x system as a long-term monitor for force and pressure.

The easy to use software measures the left or right foot or both feet together and stores the calculated total force or peak pressure in the pedar®-x system's flash memory.

Depending on the adjusted scanning rate and the selected number of areas, the software can store the data for a long period of time. For example, full speed scanning at 100 Hz and two selected areas left and right foot will provide more than 25 hours of storage time.

Force and pressure are calculated from calibrated sensors, as with all novel systems.

pedoport®

Bodyweight is measured with pedar®-x independently from the foot to ground contact area and includes all phases of the foot roll-over process.

The pedoport® software is available in 5 versions:

pedoport® LMF
Features:
■ Monitors total force, left and right foot

pedoport® LMFS
Features:
■ Monitors total force, left and right foot
■ Supplies signal for reaching desired load and warning signal for overload

pedoport® LMP
Features:
■ Monitors peak pressure in 4 selectable areas
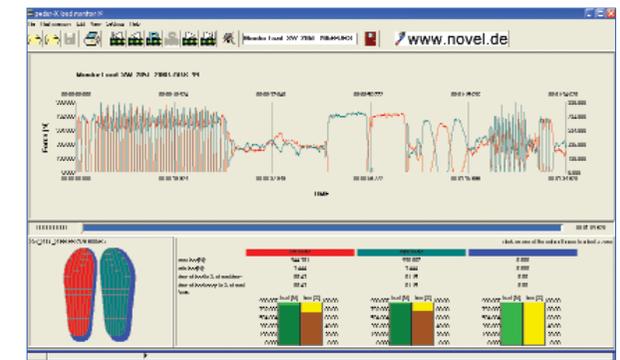
pedoport® LMPS
Features:
■ Monitors peak pressure in 2 selectable areas
■ Supplies warning signal for overriding overload

pedoport® IFS
Features:
■ Intelligent foot switch function
■ Monitors total force or peak pressure of 8 selectable areas
■ Supplies switching signal output for gait analysis systems and EMG

pedoport® LMF

pedoport® LMF

The pedoport® LMF software monitors the total force of the left and the right foot and both together. The force data is calculated from all individual sensors in the respective insole and stored in the pedar®-x flash memory as a total force for each foot. Calibration can be done for each individual sensor and the scanning speed can be adjusted from 1-100 Hz. At selected maximum speed of 100Hz, pedar®-x monitors continuously for 25 hours.

pedoport® LMFS

The pedoport® LMFS software functions exactly like the pedoport® LMF software, but also supplies additional output signals when a desired level of force is reached or overload is reached. Output signals can be used as feedback for the patient to help maintain a prescribed, healthy load during their daily activity. In industrial applications, these signals can help maintain worker safety by warning the worker when they have exceeded a safe transfer load limit.