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.

The pedoport® LMPS software functions like the pedoport® LMF software but also supplies output signals when a 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.

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 synchronize 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.
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 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

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

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    - Supplies warning signal for overriding overload

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  - 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

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.

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.