medilogic Belamed

Measuring insole for controlling the load to the leg during walking

For Application in the fields of

- **Traumatology**
- **Orthopaedics**
- **Sports medicine**
- **Occupational medicine**
- **Rehabilitation**

Belamed-Insole with signal unit

Main areas for application:

As an indicating system for sensitisation of the lower extremities, the medilogic® biofeedback system “Belamed” finds its task in the field of rehabilitation and training for reducing capacity overload after operation.

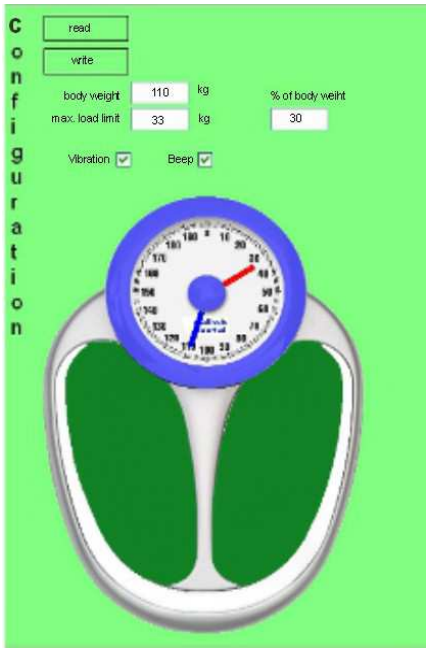
The Task:

Following i.e. accidents or surgery it is often necessary to limit the load on the leg during the healing process to avoid damage during walking. On the other hand a limited and well defined amount of load during early mobilisation helps the healing process. A compromise is a partial load on the leg with walking aids.

System description:

The system consists of three monitoring insoles in different sizes and the electronic signal unit. The signal unit is attached with a Velcro strip to the patients lower leg. For configuration the system the body weight and the load limit per cent has to be typed in the easy handling Software of Belamed. For the signal in case of transgresses the load limit you can choose an acoustic signal, a vibration signal or a combination of both. While walking, the insole gives signal any time the marginal value is reached. According to this feedback the patient is enabled to accommodate his locomotion to the necessities.

In addition the movement data is recorded and can be analysed later on.



Belamed-Software for configuration

Application examples:

- Avoiding overload to the injured leg during walking with walking aids. An overload will be indicated by an acoustic or vibrating signal.
- Locomotive training for patients with their first prosthesis, here the acoustic signal will inform the patient when he has reached a sufficient load on the prosthesis.

Technical Data (may change without notice):

- insoles : 36/40/44 further sizes available on demand
- Pressure Sensor: Capacitive sensor (8 sensor areas)
- Size of the signal unit: 97mm x 74 mm x 23mm
- Weiht of the signal unit: 70g
- Power source: internal storage-battery
- Charging the storage-battery via USB
- Medical device class 1

SWIIEB GmbH
Hinterhofstrasse 1d, 5312 Döttingen, Switzerland

Tel: +41 56 508 5088
Fax: +41 56 508 5188

info@swiieb.com
www.swiieb.com