**Features of pliance® PMS**

- conforms perfectly to anatomical areas
- monitors simultaneously different anatomical areas of the limb
- measures highly accurate calibrated values
- scans up to 20,000 sensors per second
- allows configuration and localisation of sensor matrix via expert software in 2D- and 3D mode
- stores data on SD-card
- sends data online via built-in Bluetooth® telemetry to any PC
- can be synchronised with video and EMG

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**Technical data for sensor S2054**

- number of sensors: 90 (15 x 6)
- total sensor area (mm²): 150 x 60
- size of one sensor element (mm²): 10 x 10
- thickness (without coating) (mm): <1
- elasticity: -4%
- pressure range* (kPa): 10 - 600

**Technical data for sensor S2055**

- number of sensors: 18 (6 x 3)
- total sensor area (mm²): 60 x 30
- size of one sensor element (mm²): 10 x 10
- thickness (without coating) (mm): <1
- elasticity: -4%
- pressure range* (kPa): 10 - 600

**Technical data for sensor S2098**

- number of sensors: 45 (15 x 3)
- total sensor area (mm²): 150 x 30
- size of one sensor element (mm²): 10 x 10
- thickness (without coating) (mm): <1
- elasticity: -4%
- pressure range* (kPa): 10 - 600

* Different pressure ranges are available

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**trublu® calibration device**

With the aid of the trublu® calibration device, all sensors are individually and simultaneously calibrated with homogeneous air pressure. Calibration guarantees accurate and reproducible data collection. Calibration systems are available in various sizes.

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All systems from novel operate with high quality, calibrated sensors and provide reliable and reproducible long-term measurements. pedar®, pedoport® and the novel logo (colored foot) are the registered trademarks of novel gmbh © 1992-2019
Due to poor socket fit and improper pressure distribution, it is common for amputees to develop residual limb problems such as discomfort, pain, skin irritation, pressure ulceration and associated infection. Up to now the most frequently used method of inspection for these problems is individual inspection and verbal feedback.

Measuring pressure at the interface between an amputee's residual limb and prosthetic socket could provide valuable information in the process of prosthetic socket fabrication, modification and optimal fit.

For that application novel offers the pliance® prosthesis measuring system PMS.

The pliance®-PMS prosthesis system has been developed for socket evaluation and fit. It provides a quantification of the level of pressure at the residual limb/socket interface during static and dynamic measurements.

The pliance®-PMS capacitive sensors connect to the pliance®-PMS analyser, which scans a maximum number of 1024 sensor elements. The sensor pads can be placed at selected positions and scanned simultaneously.

The possibility to store data on the SD-card or to send data online by the built-in telemetry allows a great degree of flexibility when measuring pressure while walking. The results are therefore more relevant to "real-life" daily loads of the residual limb.

The pliance®-PMS software package operates with Windows XP and Windows 7. It is user friendly and contains many useful options for fast pressure data collection, analysis and data presentation.

As a result of their design and material selection, the pliance®-PMS sensors are flexible and elastic and have the ability to conform very well around highly contoured sites. This is particularly advantageous in prosthetics because of the highly irregular surface and geometry of the residual limb and the shape of the socket.

The pliance®-PMS sensors include a dense array of sensors, with a small individual sensor area. This allows the recording of interface pressure at a discrete location of the socket. The length of the sensor pad is appropriate for use on a short or long transtibial socket. The different standard shapes allow testing of different anatomical areas simultaneously. Custom made sensors are also available.