

CHIP YOUR APPLIANCES WITH THE MICROSENSOR.

Therapy succes

Succes is directly related to the wearing discipline of the patient when treating with removable appliances. For the specialist until now it was almost impossible to see, if the reason for inefficient treatments was caused by poor compliance or by other reasons.

The microsensor now enables a new way of compliance monitoring during treatments.

No discussion with the patiënt anymore about wearing time.

The microsensor can be used in different aplliances, not only for onthodontics appliances but also for snoring or bruxism treatments.

The system consist of:

- 1 Microsensor measures and stores the real wearing time of removeable appliance.
- 2 Reading station reads the memory of the microsensor and transfer the data to the computer.
- 3 Evaluation software shows the real wearing time in a simple to evaluate graph.

Microsensor

The special measuring technology of the microsensor, 9 x 13mm in size, checks in defined periods of time the real wearing time and stores this data into the integrated memory.

Our laboratory is embedding the microsensor in the acrylic body of the orthodontic appliance.

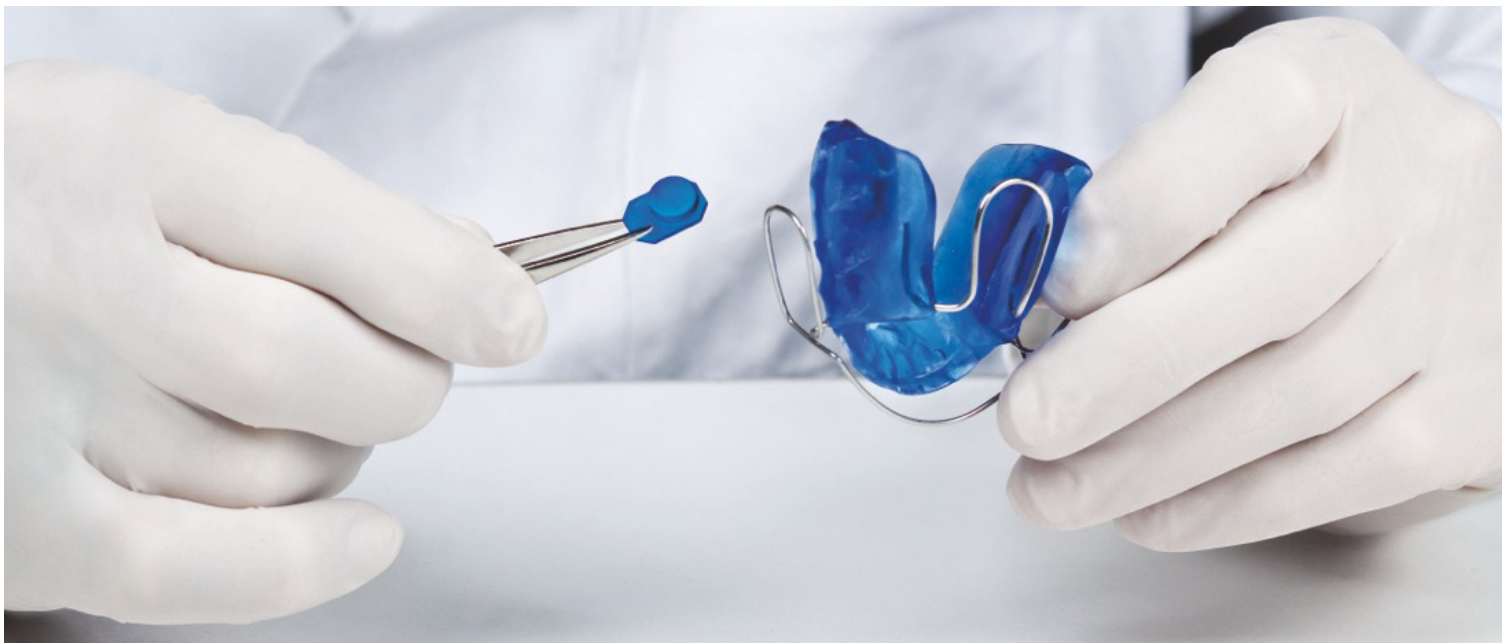
The microsensor is entirely covered with the same material the appliance made of.

A direct contact between the microsensor and the mucosa is not possible.

To send and receive data, the microsensor is using RFID technology (radio frequency identification). The reading station emits an electromagnetic field of very short range to supply external power to the microsensor.

The antenna of the sensor can only be activated, microsensor, if it is placed in the very near area of the reading station.

The Microsensors are designed for single usage only. The lifetime of the sensor is adjusted to the typical lifetime of orthodontic appliances, last up to 24 month. To enable evaluations over the entire treatment of the patient, several microsensors can be archived in the theramon evaluation software.



CHIP YOUR APPLIANCES WITH THE MICROSENSOR.

Reading station

The reading station maintains a wireless connection of the microsensor and the reading station is connected with usb cable to the computer.

When the orthodontic appliance with microsensor is recognized in the magnetic field of the reading station the reading proces scan be started. Data of the microsensor is transferable wireless with RFID technology. The supplied evaluation software enables a comfortable graphical display of the real wearing time of the brace in hours a day and further detailed evaluations.



Software

The special software document graphically the wearing time duration the entire treatment.

Based on this data you can evaluate the progress of the treatment and further steps of the treatment can be planned much more efficient .

Evaluation scan be exported for further use in orther proramms.

Minimum requirements to windows computer hardware, 1 GB ram, 20 GB hard disc drive usb-port monitor resolution minimum 800 x 600 pixels, windows software.