ERGONEERS
FROM SCIENCE TO INNOVATION

SENSORCONNECT
ERGONEERS APP

// The SensorConnect App can be used by users for mobile data acquisition of external sensors for biometric behavioral data, such as the biometric wristband Empatica E4 and/or the EEG system Emotiv.
The recorded data can be transmitted online via WLAN to the Ergoneers product D-Lab, where they can be evaluated as part of a study. When using the Ergoneers product D-Lab, biometric sensors which are connected to SensorConnect, are presented as available devices.
SensorConnect is the easiest way to get positional data from the subject, get basic physiological data and enable researcher to do contextual human brain research.
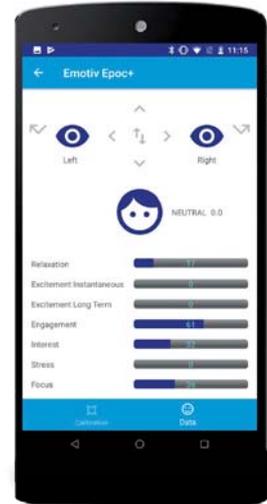
ERGONEERS

A NEW WAY OF MOBILE DATA ACQUISITION

The Ergoneers „SensorConnect" app enables users to receive data from connected devices (Empatica E4, Emotiv) via a mobile phone and transmit them to the behavioral research software platform D-Lab.
The transferred data can be recorded and analyzed synchronously with many other data (eye tracking, audio, etc.) in D-Lab. The transfer of wearable sensors to the app works via a bluetooth connection. For further transmission to D-Lab a Wifi connection is necessary.

FACTS AT A GLANCE

- Live transmission of the available sensors to D-LAB
- Transmission of all data of the Empatica E4 and calculation of heart rate variability
- Recognition of facial expressions and recording of performance metrics
  (stress, interest, relaxation, etc.) in order to conduct contextual human brain research
- Transmission of GPS, Gyro and data of the step counter to D-LAB
- Easy handling due to automatic connection with D-LAB
- Display of the transferred data as values or visual representation

WEARABLE SENSORS / INPUTS WITH SENSORCONNECT

- Empatica E4 wristband

    - Skin conductance
    - Skin temperature
    - Accelaration / movement in x,y,z-axis
    - Pulse
    - Heart rate variability (based on interbeat interval)

- Emotiv EPOC+ and Insight

    - Facial expressions
    - Performance metrics
        - Relaxation
        - Excitement Instantaneous
        - Excitement Long Term
        - Engagement
        - Interest
        - Stress
        - Focus

- Android Sensors (Note: more or less values, depending on the device, can be sent to D-Lab)

    - Acceleration
    - GPS
    - Step detection

WHAT DO I NEED FOR USE?

- D-Lab Connect module
        - Smartphone with Android 8.1
- Optional Empatica and/or Emotiv sensors