



## loadglove

*Quantifying hand and fingertip forces*

# hand and fingertip force sensor

### loadglove key features:

- consist of palm sensor and up to 13 finger sensors customized as desired
- measure forces between hand and most objects with reliable and precise capacitive force sensor
- quantify forces to design best practices and work standards for processes
- analyze mechanical properties of buttons or switches for ergonomic optimization
- enable precise work flow standards by creating thresholds and using auditory or visual feedback
- visualize and analyze data in real-time via loadapp®

**loadglove** detects the **normal force** acting on sensors placed along the **hand**.

The glove can be used for applications in **ergonomics**, **manufacturing**, **quality control**, and **biomechanics**.



## Technical information

The loadglove is the ideal solution for mobile applications in which the load on the hand is to be monitored in daily routine. It consists of 1 loadpad sensor for the palm and 1-13 buttonsens sensors for the fingers.

|                    | loadpad                       | buttonsens                    |
|--------------------|-------------------------------|-------------------------------|
| dimension          | 90 x 80 mm                    | 17 x 17 mm                    |
| sampling rate (Hz) | 10 – 100 Hz                   | 10 – 100 Hz                   |
| battery            | 48 h                          | 48 h                          |
| force range        | 5 – 4300 N                    | 5 – 170 N                     |
| accuracy           | ± 10%                         | ± 10%                         |
| operating devices  | iOS or Android mobile devices | iOS or Android mobile devices |

## loadapp specifications



Visualize data as time series and get visual or audio feedback in realtime

Compare precise load on each sensor

Synchronize measurement with video



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