

myosmart plus and myosmart.

Take control.

myosmart and **myosmart plus** are myoelectric controls based on advanced pattern recognition. They enable users to control their prosthetic arm in a personalized, precise and direct way.

myosmart uses the same principles as conventional 2-site systems but utilizes the advantages of modern signal processing. No more crosstalk and threshold adjustments, making it ideal for fast and reliable fittings with less training effort.

myosmart plus takes control one step further. By supporting up to eight directly controllable prosthetic movements, optionally combined with switching signals, it allows motivated users to control their prosthesis directly and fluidly through everyday tasks.

myosmart plus is the ideal starting point for any prosthetic evaluation. The control makes it easy to test users with both well-differentiated and less pronounced muscle signals. If a user is less suited for **myosmart plus**, they can seamlessly switch to the **myosmart** control – without replacing the **myosmart cuff** or the **connectgrip** app.



Direct, intuitive prosthetic control.

● Personalized control through advanced pattern recognition

myosmart plus and **myosmart** translate individual muscle signals into precise, intuitive prosthetic movements.

● Direct and responsive control

myosmart plus allows direct and fluid control of prosthetic components based on individual muscle signals. Therefore movements can be performed continuously during use and transitions between grips and functions are immediate.

● Capturing unintended prosthetic movements

To prevent unintended prosthetic movements, the controls and the **connectgrip** app can record accidental muscle signals, helping to avoid miscontrol.

● Quick and easy prosthesis deactivation

Individual or all prosthetic components can be temporarily deactivated and re-activated with a brief muscle signal or the **connectgrip** app, providing maximum safety and flexible use.

● Individual settings and fine-tuning

The **connectgrip** app allows flexible adjustments of response times, speed and additional features to be fine-tuned even after initial setup. This enables the control to be optimally adapted at any time to the individual needs and abilities of the user.

● Switch hands, keep control

Different tasks sometimes require different arm prostheses. Switching between different terminal devices is effortless and requires no adjustment of settings. The control remains unchanged, ensuring a consistently intuitive user experience.

● Universal training and evaluation tool

myosmart cuff supports evaluation and the selection of the optimal prosthetic solution. In combination with the **connectgrip** app, it provides clear visual feedback, helping with electrode placement, early signal training, and enhancing understanding, confidence, and enthusiasm in potential new users.

● Updates without service effort

Remote firmware updates via the **connectgrip** app allow new features and components to be quickly integrated into already delivered **myosmart** and **myosmart plus** prosthetic control systems – without the need for complex service processes. All systems in the field, including the **myosmart cuff**, are fully supported.



myosmart plus



myosmart

Technical data:

myosmart plus

13E523=TR-1

13E523=TH-1

myosmart

13E522=1

connectgrip

available in the App Stores



myosmart cuff

757M20-2 (one size)

Compatible components:

speedhand 8E2

micHELangelo 8E5

bebionic 8E7

DynamicArm 12K100N

ErgoArm 12K44, 12K50

Modular wrists:

wrist flex 10V61=1

wrist eqd 10V62=1

wrist short 10V63=1

wrist transcarpal 10V64=1

myosmart plus	myosmart
- Up to 8 direct movements - Impulse for joint switch & functions - Direct access - Best suited for users with good muscle control who want to actively develop their skills further	- Open/Close movement - Impulse for joint switch & functions - Direct access - Best fit with speedhand and lower complexity fittings
Personalized signal recording process via connectgrip app.	
4 to 8 electrodes	2 to 4 electrodes and myo switches
- Algorithm based signal processing - All electrodes are used to decide on a movement	
- Movement patterns and optional switching signals can be combined individually – for greater flexibility - Clear, detailed visualization of muscle signals	- Separating input signals less important - Retrofit-compatible into an existing socket for use with hand and elbow, without changing the user's control habits
Compatible with transradial and transhumeral	
- Best with micHELangelo or bebionic - Active rotation - Active elbows	- Best with speedhand, micHELangelo and myoelectric hands - Active rotation - Passive / active elbows