K4 allows pattern recognition command of Motion Control Utah Arm 3+ elbow flexion/extension with optional pronation/supination of powered wrists and open/close operation of prosthetic hands. Pattern recognition command of multifunction grips is not included.

**PART 1: PHYSICAL CONNECTIONS**

**K4 DEVICE CONNECTION**

**K4 CLINICAL CONNECTIONS & SETTINGS GUIDE**

**PART 2: SOFTWARE SETTINGS**

**ELBOW**

**MOTION CONTROL UTAH ARM 3+**

U3 Elbow User Choices
- Elbow Polarity: A
Dual-Channel Elbow Settings
- Quick, Channel A EMG Gain: 5.00, Channel B EMG Gain: 5.00, Channel A Threshold: 5.00, Channel B Threshold: 5.00
Elbow Lock/Unlock
- Lock Override: Off, Flex/Ext After Braking: On, Switch Rate A: 25.00, Switch Rate B: 25.00, Lock Time: 00.10, Switch Window: 00.20
U3 Elbow Settings
- Seconds Until Relaxed: 0.05, A + B Freeswing Level: 0.00

**WRISTS**

**OTTOBOCK ELECTRIC WRIST ROTATOR (NO MYOROTRONIC) OR MOTION CONTROL STANDARD WRIST ROTATOR (NO PROCONTROL)**

WRIST SET UP
- Electric Wrist Enabled: Yes, Wrist Direction: A
HAND SET UP
- Input Type: EMG, Hand Filtering: Quick, Channel: Dual, Control: Differential, Hand Direction: A
THRESHOLDS/OUTPUTS
- A: 15, B: 15
INPUT GAINS
- A: 5, B: 5
RELAX DELAY
- Relax Timer: 0.1
SWITCH CONTROL
- Switch Rates A: 75, Switch Rates B: 75, Switch Window: 0.1, Fast Access: On, Co-Contraction: Off, Auto-Switch Back: No

**HANDS**

***MANY/MOST HANDS SHOULD BE SET TO FACTORY DEFAULT FOR OPTIMAL OPERATION.***

**OTTOBOCK SENSORHAND, MYOHAND VARIPLUS, SYSTEM ELECTRIC GREIFER, OR SYSTEM ELECTRIC HAND**

Ensure ‘control mode’/’program’ 1

**OTTOBOCK BEBIONIC**

Control Strategy: Dual Site
Open / Close Strategy: Electrodes: A,B
Control Options: Electrodes
Control Response: Proportional

In ELECTRODE SCREEN:
- Channel 1 “Blue” threshold: 10%
- Channel 1 “Red” threshold: 90%
- Channel 2 “Blue” threshold: 10%
- Channel 2 “Red” threshold: 90%

Remember to press “Send to Hand” after making any changes

**MOTION CONTROL PROHAND, PROETD/ETD2**

HAND SET UP
- Input Type: EMG
- Hand Filtering: Quick
- Channel: Dual
- Conatrol: Differential
- Hand Direction: A

Thresholds/Outputs
- A: 15
- B: 15

Input Gains
- A: 5
- B: 5