



**BIONIT LABS®**

EN

TURNING DISABILITIES INTO NEW POSSIBILITIES

# MYO UNIT



**MYO UNIT**

Mod. MU01

**DATASHEET**

|   |  |                    |
|---|--|--------------------|
| <b>COMMERCIAL NAME</b>  | Myo Unit   |                    |
| <b>REF</b>  | MU01   |                    |
| <b>INTENDED USE</b>   | <p>Accessory of the Adam's Hand® medical device, intended for use by the Orthopedic Technician and used for:</p> <ul style="list-style-type: none"> <li>• the qualitative visualization of surface EMG signals, generated following the voluntary contraction of the forearm muscles and recorded via one or more electrodes.</li> <li>• evaluate the quality of the EMG signals and determine the optimal position of the EMG electrodes for the control of a myoelectric prosthesis under construction or modification.</li> </ul> |                    |
| <b>TECHNICAL FEATURES</b>   | <b>COMPATIBILITY</b>   |                    |
|   | Consult the chart on p. 3, containing the list of electrodes compatible with Myo Unit.   |                    |
|   | <b>PRODUCT DATA</b>  |                    |
|   | Dimensions   | (88 x 82 x 112) mm |
|   | Screen dimensions  | 3.5"               |
|   | Weight   | 170 g (6 oz)       |
|   | Expected lifetime  | 5 years            |
|   | Warranty   | 1 year             |
|   | <b>ELECTRICAL AND MECHANICAL FEATURES</b>  |                    |
|   | Supply voltage   | 5 V                |
|   | Max. supply current  | 2 A                |
|   | Electrode power supply   | 7.4 V - 50 mA      |
|   | Battery technology   | 1 li-ion cell      |
|   | Battery capacity   | 2000 mAh           |
|   | Charging time (fast-charge)  | 180 minutes        |
|   | Battery Life   | 6 hours            |
|   | Charging connector   | USB Type-C         |
| Degree of protection against liquid and solid particles penetration (IEC 60529) | N/A  |                    |
| <b>OPERATING CONDITIONS</b>   |  |                    |
| Operating temperature (discharge phase)   | from -10 °C/+14 °F to + 60 °C/+140 °F  |                    |
| Operating temperature (charge phase)  | from +0 °C/ +32 °F to + 45 °C/ +113 °F   |                    |
| Storage and transport temperature   | from -10 °C/+14 °F to + 35 °C/+95 °F   |                    |
| Relative humidity of use  | 35 % ± 80 %  |                    |
| Relative humidity of storage/transport  | ≤ 45 % ± 75%   |                    |
| <b>DETAIL OF CONNECTIONS AND BUTTONS</b>  |  |                    |

The Orthopedic Technician connects one or more electrodes to the "Myo Unit" device via the appropriate wiring and displays the EMG signal on the device screen and/or via "Myo Logic Pro", an app for iPad® with iOS® operating system dedicated to the Orthopedic Technician or to the Authorized Distributor. In fact, the "Myo Unit" device integrates a 3.5 " screen (320 x 480 Resolution, RGB 65K true to life colours, TFT Screened) and a Bluetooth Low Energy® transmission module, to allow short-range communication with devices on which the "MyoLogic Pro" app is installed.

The device has two buttons:

- on / off button
- background color selection button.

By rotating the device horizontally, you switch from the bar display of the EMG signal to that with a two-axis graph.




|                              |   |
|------------------------------|---|
| <b>TESTS</b>                 | Each medical device is tested before the shipment, in accordance with company procedures. The reference standards are affixed on the declaration of conformity attached to the device.  |
| <b>TECHNICAL REGULATIONS</b> | IEC 60601-1, IEC 60601-1-2, IEC 62304, IEC 62366<br>IEC 62133-2:2017<br>ISO 22523<br>RED ETSI 300 328   |
| <b>LABELLING</b>             | Labelling in accordance with UNI EN ISO 15223-1, IEC 60601-1; copy of the label is present in the Technical Manual and User Manual.   |
| <b>DISPOSAL INSTRUCTIONS</b> |  This medical device must be managed in accordance with art. 13 - Legislative Decree 25 July 2005, n. 151 "Implementation of directives 2002/95/CE, 2002/96/CE and 2003/108/CE, relating to the reduction of the use of dangerous substances in electrical and electronic equipment, as well as waste disposal". |

Chart 1: Electrodes compatible with the Myo Unit device mod. MU01.

| Manufacturer              | Product                  | Type             | Model / Part Number |
|---------------------------|--------------------------|------------------|---------------------|
| BionIT Labs® S.r.l.       | Wave Electrode           | Analog electrode | AE02-50 / AE02-60   |
| Otto Bock HealthCare GmbH | MyoBock® Electrode       | Analog electrode | 13E200=50 / =60     |
| Otto Bock HealthCare GmbH | Suction Socket Electrode | Analog electrode | 13E202=50 / =60     |
| Össur                     | Compact Electrode Kit    | Analog electrode | PL091-XXX           |
| Steeper Group             | Electrode                | Analog electrode | ELEC50 / ELEC60     |
| COVVI Ltd.                | Electrode                | Analog electrode | CEL-50 / CEL-60     |

## Manufacturer's contacts

For any information, request or complaint, please contact:



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### Certified Company





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