



BIONIT LABS

TURNING DISABILITIES INTO NEW POSSIBILITIES

EN



**WAVE
ELECTRODE**



WAVE ELECTRODE

Mod. AE02-NN

DATASHEET


| | | |
|--|--|---|
| COMMERCIAL NAME | Wave Electrode | |
| REF | AE02-NN-01, con NN = notch frequency code | |
| INTENDED USE | Non-invasive surface EMG (electromyographic) electrode for driving myoelectric prostheses (without measuring function). | |
| TECHNICAL FEATURES | COMPATIBILITY | |
| | Consult the chart on p. 2, containing the list of Wave Electrode compatible devices. | |
| | PRODUCT DATA | |
| | Notch filter frequency | <ul style="list-style-type: none"> • 50 Hz (NN = 50) • 60 Hz (NN = 60) |
| | Sensitivity range | 2.400 ÷ 120.000 x |
| | Dimensions | <ul style="list-style-type: none"> • (27 x 18 x 8) mm without lateral supports • (45 x 18 x 8) mm with lateral supports |
| | Weight | 5 g |
| | Applied part materials | <ul style="list-style-type: none"> • Medical surgical steel AISI 316L (EN 1.4404) • Medical POM |
| | Expected lifetime | 5 years |
| | Warranty | 1 year |
| | MECHANICAL AND ELECTRICAL FEATURES | |
| | Supply voltage | 6 ÷ 8.4 V (DC) |
| | Max. supply current | 2 mA |
| | Degree of protection against liquid and solid particles penetration (IEC 60529) | IP67 |
| | OPERATING CONDITIONS | |
| | Use temperature | from -20 °C/ -4 °F to +60 °C/ +140 °F |
| | Usage humidity | ≤ 75 %, non-condensing |
| Storage and transport temperature | from -20 °C/ -4 °F to +70 °C/+158 °F | |
| Relative humidity of storage and transport | ≤ 85 %, non-condensing | |
| TESTS | 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. | |
| TECHNICAL REGULATIONS | IEC 60601-1, IEC 60601-1-2, IEC 60601-1-11, IEC 62304, IEC 62366 IEC 60529:1989/AMD2:2013/COR1:2019 IEC 60601-1-8:2006+AMD1:2012 ISO 10993-10, ISO 22523 RED ETSI 300 328 | |
| LABELLING | 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. | |
| DISPOSAL INSTRUCTIONS |  | 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: Devices compatible with the Wave Electrode mod.AE02-NN.

| Manufacturer | Product | Type | Model / Part Number |
|---------------------------|-----------------------------------|------------------------------------|------------------------------|
| BionIT Labs® S.r.l. | Adam's Hand® | Multi-articulating prosthetic hand | AH02-CDYY-E |
| BionIT Labs® S.r.l. | Cavo per Wave Electrode | Connection cable | AEC-YYY |
| BionIT Labs® S.r.l. | ThunderCell Battery® | External battery | EB02-E |
| Otto Bock HealthCare GmbH | Energy Pack | External battery | 757B20 |
| Otto Bock HealthCare GmbH | Energy Pack | External battery | 757B21 |
| Otto Bock HealthCare GmbH | MyoEnergy Integral | Internal battery | 757B35=0 / =1 / =3 / =4 / =5 |
| Otto Bock HealthCare GmbH | Digital Twin System Electric Hand | Tridigital myoelectric hand | 8E38=7 |
| Otto Bock HealthCare GmbH | DMC plus System electric Hand | Tridigital myoelectric hand | 8E38=6 |
| Otto Bock HealthCare GmbH | Bebionic | Tridigital myoelectric hand | 8E70=* |
| Össur® | 1300/2000 mAh Battery | Internal battery | PL000335/6 |
| Össur® | Rechargeable Li-Polymer Battery | Internal battery | 000172B |
| Össur® | Replaceable Battery | External battery | SA069313 |
| Össur® | i-Limb® Access | Multi-articulating prosthetic hand | TBX5004X / TBX5048X |
| Össur® | i-Limb® Ultra | Multi-articulating prosthetic hand | TBX5018X / TBX5048X |
| Össur® | i-Limb® Quantum | Multi-articulating prosthetic hand | TBX5014X |
| Össur® | i-Limb® Revolution | Multi-articulating prosthetic hand | - |
| TASKA™ Prosthetics | TASKA Hand | Multi-articulating prosthetic hand | - |
| COVVI | Nexus Hand | Multi-articulating prosthetic hand | CVXXXQXXXXXXXX(+0000X X) |
| Aether Biomedical | Zeus | Multi-articulating prosthetic hand | A1 - L /-R |
| Vincent Systems GmbH | VINCENTevolution3 | Multi-articulating prosthetic hand | - |
| Vincent Systems GmbH | VINCENTevolution3+ | Multi-articulating prosthetic hand | - |
| Vincent Systems GmbH | VINCENTevolution4 | Multi-articulating prosthetic hand | - |
| Vincent Systems GmbH | VINCENTyoung3+ | Multi-articulating prosthetic hand | - |
| Steeper Group | Lithium Polymer Battery | External battery | BLPA72 |
| Steeper Group | S-Charge System | Internal battery | SC2200 |
| TASKA | TASKA® Battery system | Internal battery | - |
| COVVI Ltd. | Power Supply systems | Internal battery | COVSB-1600 |
| COVVI Ltd. | Power Supply systems | Internal battery | COVSB-2600 |
| Vincent Systems GmbH | VINCENTaccu flex® | Internal battery | - |
| IBT | FlexCell® | Internal battery | 2017200 |
| IBT | FlexCell Mini® | Internal battery | 2037200 |

Manufacturer's contacts

For any information, request or complaint, please contact:



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