



**BIONIT LABS®**

TURNING DISABILITIES INTO NEW POSSIBILITIES

EN

# DEMO UNIT



**DEMO UNIT**

Mod. DU01

**DATASHEET**

<b>COMMERCIAL NAME</b>	Demo Unit	
<b>REF</b>	DU01	
<b>INTENDED USE</b>	Laboratory equipment used by the Clinicians for demonstration activities aimed at exposing the functionality of Adam's Hand to the end user.	
	<b>COMPATIBILITY</b>	
	Consult the chart on p. 3, containing the list of devices compatible with Demo Unit.	
	<b>PRODUCT DATA</b>	
	Dimensions	Demo Unit: (62 x 62 x 245) mm / (2.5 x 2.5 x 9.6) inches Demo Unit Base: (115 x 115) mm / (4.5 x 4.5) inches
	Weight	Demo Unit: 175 g / 6 oz Demo Unit Base: 740 g / 26 oz
	Expected lifetime	5 years
	Warranty	1 year
	<b>ELECTRICAL AND MECHANICAL FEATURES</b>	
	Rated supply voltage	7.4 V
	Max. supply current	6 A
	Degree of protection against liquid and solid particles penetration (IEC 60529)	N/A
	<b>OPERATING CONDITIONS</b>	
	Operating temperature (discharge phase)	from -20 °C/-4 °F to + 45 °C/+113 °F
	Storage and transport temperature	from -20 °C/-4 °F to +70 °C/+158 °F
	Relative humidity of use	≤ 30% ÷85 %
	Relative humidity of storage/transport	≤ 85 %, non-condensing
	<b>CONNECTIONS DETAILS</b>	
	<p>The device is provided with a standard quick disconnect wrist (mod. QDW) for connection with the Adam's Hand. The Clinician who uses the "Demo Unit" device can foresee, under his responsibility, the use of an active wrist rotator. The test of the prosthetic hand can take place thanks to a joystick with which is possible to control the opening and closing commands or through one or more analog EMG electrodes connected through dedicated connectors. The selection of the two use modes (joystick, analog electrodes*) can be performed by a double click of the button integrated in the joystick.</p> <p>The Demo Unit allows the connection of several prosthetic hands, manufactured by other manufacturers and provided with a standard quick disconnect wrist (mod. QDW) equipped with both analog or digital communication system. It is possible to switch from "Digital Communication" (default) to "Analog Communication" by executing a prolonged click of the button integrated in the joystick.</p> <p>The device integrates a receptacle for the "ThunderCell Battery" supply system, in order to receive and distribute power supply to all the connected components (electrodes and prosthetic hand).</p> <p><i>Digital Electrode under development</i></p>	



**VISUAL ALERTS**

Near the electrode cables connectors, two white LED are available. By changing the operating mode of the Demo Unit, the relative white lights will turn on. When analog electrode are selected, the releated light near the analog electrodes connector will turn on; otherwise, when digital\* electrodes are selected, the releated light near the digital electrode connector will turn on.

Near the joystick, at the top, there is another small LED. Acting on the joystick to open or close the hand, the indicator light turns blue in case of closing commands and red if case of opening commands.

*\*Digital Electrodes under development.*

Lastly, when “Analog Communication” is selected, both analog and digital electrodes leds blink twice. Contrariwise, when “Digital Communication” is selected, both analog and digital electrodes leds blink once for a prolonged time.

**ACOUSTIC ALERTS**

4kHz frequency buzzer for signaling alarms or device status changes.

**TESTS**

The product is tested before shipment, in accordance with company procedures. The reference standards are affixed on the declaration of conformity attached to the device.

**TECHNICAL REGULATIONS**

IEC 61010-1:2010 + AMD1:2016  
 IEC 61326-1:2020  
 IEC 62133-2:2017 + AMD1:2021  
 RED ETSI 300 328

**LABELLING**

Labelling in accordance with UNI EN ISO 15223-1, IEC 60601-1; copy of the label is available in the Installation, Maintenance and Operation 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 Demo Unit mod. DU01.

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
BionIT Labs S.r.l.	Adam's Hand	Multi-articulating prosthetic hand	AH02-XX
Otto Bock HealthCare GmbH	Bebionic	Multi-articulating prosthetic hand	8E7X=*
Otto Bock HealthCare GmbH	System Electric Hand Digital Twin	Tridigital myoelectric hand	8E38=7
Otto Bock HealthCare GmbH	System Electric Hand DMC Plus	Tridigital myoelectric hand	8E38=6
Otto Bock HealthCare GmbH	MyoHand VariPlus Speed	Tridigital myoelectric hand	8E38=9
Otto Bock HealthCare GmbH	SensorHand Speed	Tridigital myoelectric hand	8E38=8
Össur	i-Limb® Quantum	Multi-articulating prosthetic hand	TBX5014X
Össur	i-Limb® Ultra	Multi-articulating prosthetic hand	TBX5018X/ TBX5048X
Össur	i-Limb® Ultra Revolution	Multi-articulating prosthetic hand	-
Össur	i-Limb® Access	Multi-articulating prosthetic hand	TBX5004X / TBX5048X
TASKA™ Prosthetics	TASKA Hand	Multi-articulating prosthetic hand	-
COVVI Ltd.	Nexus Hand	Multi-articulating prosthetic hand	CVXXXQXXXXXXXXX
Vincent Systems GmbH	VINCENTevolution4	Multi-articulating prosthetic hand	-
Vincent Systems GmbH	VINCENTevolution3	Multi-articulating prosthetic hand	-
Vincent Systems GmbH	VINCENTyong3+	Multi-articulating prosthetic hand	-
Aether Biomedical GmbH	Zeus	Multi-articulating prosthetic hand	A1-R / -L
Otto Bock HealthCare GmbH	Electric Wrist Rotator	Active Wrist Rotator	10S17

The operation of third-party devices, used in combination with 'Demo Unit' model DU01, may be influenced by their default settings or any modifications made to them.

## Manufacturer's contacts

For any information, request or complaint, please contact:



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### Certified Company





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