



BIONIT LABS[®]

TURNING DISABILITIES INTO NEW POSSIBILITIES

EN


DEMO UNIT



DEMO UNIT

Mod. DU01

DATASHEET

COMMERCIAL NAME	Demo Unit	
REF	DU01	
INTENDED USE	Laboratory equipment used by the Orthopedic Technician for demonstration activities aimed at exposing the functionality of Adam's Hand® to the end user.	
	COMPATIBILITY	
	Consult the chart on p. 3, containing the list of devices compatible with Demo Unit.	
	PRODUCT DATA	
Dimensions	Demo Unit: (62 x 62 x 245) mm Demo Unit Base: (115 x 115) mm	
Weight	Demo Unit: 175 g Demo Unit Base: 740 g	
Expected lifetime	5 years	
Warranty	1 year	
	ELECTRICAL AND MECHANICAL FEATURES	
Rated supply voltage	7.4 V	
Max. supply current	6 A	
Degree of protection against liquid and solid particles penetration (IEC 60529)	N/A	
	OPERATING CONDITIONS	
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	
	CONNECTIONS DETAILS	
	<p>The device features a standard quick disconnect wrist (QDW) for connection with the Adam's Hand® prosthetic hand. The Orthopedic Technician who uses the "Demo Unit" device can foresee, under his responsibility, the use of an active rotator of the wrist. The functionality test of the prosthetic hand can take place thanks to a joystick with which to pilot the opening and closing or through one or more surface EMG electrodes connected via dedicated cables and connectors. The selection of one of the two modes of use (manual, analog electrodes*) takes place by means of a button integrated in the joystick.</p> <p>The device integrates a receptacle in which the "ThunderCell Battery" is housed, in order to receive and distribute the power supply to all the connected components (electrodes and prosthetic hand).</p> <p><i>*Digital Electrode under development</i></p>	
		


	<p>VISUAL ALERTS</p> <p>Near the connectors for the electrode cables, there are two white LED. By changing the operating mode of the Demo Unit, one of the two white lights turns on. The light on near the connector of the analog electrodes indicates the acquisition mode of signals of this type; the light on near the connectors for the digital electrodes* indicates that the Demo Unit is acquiring the digital signals.</p> <p>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 red if the closing is in progress and blue if the opening is in progress.</p> <p><i>*Digital Electrodes under development</i></p>
	<p>ACOUSTIC ALERTS</p> <p>4kHz frequency buzzer for signaling alarms or device status changes.</p>
TESTS	<p>The product is tested before shipment, in accordance with company procedures.</p> <p>The reference standards are affixed on the declaration of conformity attached to the device.</p>
TECHNICAL REGULATIONS	<p>IEC 61010-1:2010 + AMD1:2016</p> <p>IEC 61326-1:2020</p> <p>IEC 62133-2:2017 + AMD1:2021</p> <p>RED ETSI 300 328</p>
LABELLING	<p>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.</p>
DISPOSAL INSTRUCTIONS	<p> 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".</p>

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	Digital Twin System Electric Hand	Tridigital myoelectric hand	8E38=7
Otto Bock HealthCare GmbH	DMC plus system electric hand	Tridigital myoelectric hand	8E38=6
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	VINCENYong3+	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

Manufacturer's contacts

For any information, request or complaint, please contact:



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Certified Company





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