

Modular Junction Box MJB5 Plus with Analogue to OpenBus™ Converter (AOC) **Data Sheet**



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Introduction

The modular junction box MJB5 Plus is designed for use together with OpenBus™ control boxes.

The MJB5 Plus makes it possible to connect multiple hand controls and attendant controls. It can even be used for charging or to connect the Under Bed Light and 3rd party products.

The compact design and in-line cable management makes it easy to integrate in a wide range of healthcare applications like hospital beds, surgery tables and treatment chairs.

The MJB5 Plus offers IPX6 Washable DURA™ and is the perfect match for the OpenBus control box platform. IPX6 Washable DURA helps prolong the lifetime and makes the system ready for wash tunnels and high-pressure wash down.

MJB5 Plus version 509

The AOC is an Analogue to OpenBus™ Converter. It is the perfect match for especially medical applications where the customer needs to add own products or 3rd party controls in an OpenBus system, e.g. multi-purpose foot switches.

The MJB5 AOC is available with or without power request.



Features and options

Connections:	Up to 3 controls of various types with modular jack plug or up to 16 analogue switch inputs for connection of 3rd party products
Colour:	Light Grey RAL 7035
Protection class:	IPX6 , IPX6 Washable DURA™
Current consumption:	Depends on the number of active inputs 5-12 mA VBus, 0-16 mA VPermanent

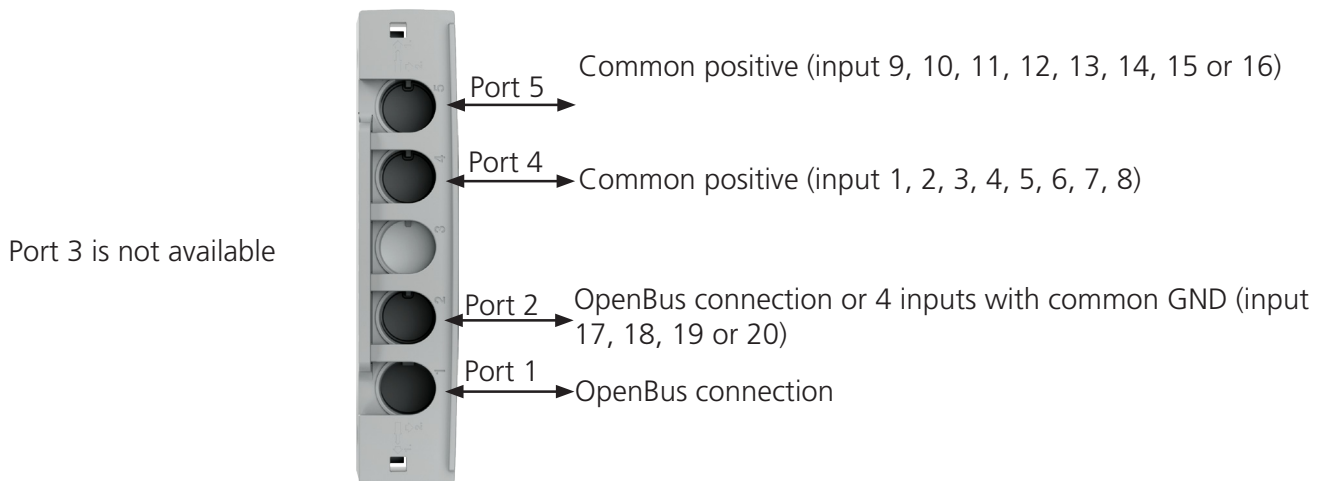
Usage

Operation temperature:	+5 °C to +40 °C
Storage temperature:	-10 °C to +50 °C
Compatibility:	Compatible with LINAK Bluetooth Low Energy (BLE) control boxes. Please contact LINAK.
Relative humidity:	20% to 80% – non-condensing
Atmospheric pressure:	700 to 1060 hPa
Meters above sea level:	Max. 3000 meters
Latex free:	Yes
Approvals:	IEC60601-1 ANSI/AAMI ES60601-1 CAN/CSA-22.2 No 60601-1



MJB5 Plus AOC Usage

Compatibility: All OpenBus control boxes except CB20.



The product label is added for correct connection to the ports



The MJB5 AOC has 4 ports:

Port 1 is for OpenBus connection.

Port 2 has 4 common ground switch inputs or an OpenBus hand control.

Port 4 has 8 common positive switch inputs or an analogue hand control.

Port 5 has 8 common positive switch inputs or an analogue hand control.

Port 1 for connection to the control box and port 2 can be used for an OpenBus control. The standard inputs are made so that a system containing an analogue hand control can be used for an OpenBus control box in port 4 or port 5.



Ordering example

MJB		
Special/Standard code no.	000	000 = Port repeater box (without functionality) 502 = SMPS 4W (Switch Mode Power Supply) 504 = Gateway 505 = UBL (Internal) / Switch input (S1 + S2) 506 = UBL (External) / Switch input (S1 + S2) 509 = Analogue to OPENBUS™ Converter
No. of OPENBUS™ connections	4	1 = For standard code: 502 (Ports: 1=OB, 2=third party) For standard code: 504 (Ports: 1=OB, 5=Third party) 3 = For standard code 000: 3 ports 4 = For standard code 000: 4 ports For standard code: 505, 506 & 509 5 = For standard code 000: 5 ports
Configuration Number	000	000 = Port repeater box (without functionality) 001-099 = Standard configuration 100-999 = Special configuration
Not used	-	- = Not used
Colour	1	1 = Light grey (RAL 7035)
HardWare version	0	0 = No Power request 1 = HW-variant with power request on all ports where it is possible 2 = HW-variant with power request on port 2 (Only for MJB509) 3 = HW-variant with power request on port 4 & 5 (Only for MJB509)
IP Degree	2	2 = IPX6 9 = IPX6 Washable DURA™
Cable	3	3 = No cable
Chosen item number:		MJB0004000-1023

Modular plug cable for connection of OpenBus™ control box to MJB5 Plus has to be ordered separately. Please remember to order DURA cable and blind plug if IP degree IPX6 Washable DURA™ is required.



Approvals and certifications

For approval documentation, LINAK recommends specifying the product type instead of individual item numbers to ensure broader approval coverage and simplify future product changes.

Listed LINAK item for application approval: MJB

If this is not possible, we advise being as non-specific as possible when specifying LINAK products in your approval application:

Listed LINAK item for application approval: MJBSSS****S**S*

" * " is not safety critical and we recommend including a non-specific signifier such as an asterisk.

" S " is safety critical and represents a listed critical component in the product and cannot be left out.

For more information, please refer to "Approvals and certifications" in LINAK Application Design Recommendations found under User Manual for any given product on LINAK.com



MJB5 Plus Cable and accessory overview

Ordering number	Description	MJB5 Plus version					
		000	502	504	505	506	509
		Port repeater	SMPS	Gate-way	UBL (Int.)	Switch input	AOC
0821147	MJB5 Plus locking mechanism	X	X	X	X	X	X
1015W1010-A	Mounting bracket exclusive screws	X	X	X	X	X	X
SA0002645	Special screws type WN1423 K60x16	X	X	X	X	X	X
0821008	Blind plug, RAL 7035 Light Grey, IPX6	X	X	X	X	X	X
0821120	Blind plug, RAL 7035 Light Grey, IPX6 Washable DURA™	X	X	X	X	X	X
0834000	USB cable, length 1000 mm (USB cable is not medically approved)		X				
0964399	Modular plug cable with open end, length 1500 mm				X	X	
0964461-xxxx	Modular plug to modular plug, 6-wire extension cable	X	X	X	X	X	X
0964140-1375	Gateway cable, xxxx mm, modular plug, open end			X			
CAB917004	Modular plug cable with 10 open-end wires						X



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