Control Box CO41

Data Sheet



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Introduction



The LINAK control box CO41 offers a consolidated range of unprecedented features – all utilising standardised technology, interfaces and compatibility.

The CO41 for LINAK actuators is intended for the control of, for example, hospital bed movement.

Equipped with 120W SMPS, excellent and well thought-out cable management as well as multiple easy mounting options, this control box opens up a wide range of application possibilities for the provident hospital and care products manufacturer.

With the CO41, FET, IPX6 Washable DURA™ protection and a battery port, are all standard options. The entire product platform supports the LINAK principle "One World – One box" – worldwide operable and applicable.

Features and options

Power supply	Universal, SMPS (Switch Mode Power Supply) 120 W power output 100-240 VAC, 50/60 Hz -15% / +10%
Power Supply Circuit Method	Half bridge
Mains indicator	Yes – Green LED (mains connected)
Actuator interface	4 channels 6-pin Mini-Fit
Hand control interface	1 port 10-pin modular plug
Battery interface	1 port 4-pin Mini-Fit (charging current 300 mA when no actuators are running)
CO-Link™	Link of primary and secondary CO41 - up to 8 channels and combination of all control boxes
Standby power	Approx. 0.5 W (120/230 V)
Colour	Light grey (RAL 7035)
Output short-circuit protected	Yes
Control concept	FET (no relay noise)
Duty cycle	10 % - 2/18 min. on/off continuous use. Maximum power is 120 W for 80 seconds and 60 W for 40 seconds at 25 °C
Weight	Low weight 0.6 kg
Actuator compatibility	Actuators with signal, feedback by hall and potentiometer
Battery charger	Battery input available No charger, but supports battery with internal charger
Charging indicator	Supported by using BA19 or BA22
Acoustic warning signal	Integrated
Battery alarm	Integrated or via BA19/BA22
PCP version	PCP 2.0 (PCP 1.0 available in SW)
EOP	Yes
IP-Rating	IPX6 Washable DURA™
Housing type	V-0, PP, welded (resistant to chemicals)
Operation	True parallel (hall feedback)

Max. current	8 A/CH
Accessories	OpenBus™ standard
Power management	High speed at low loads and/or high loads at a lower speed
Overload protection	The CO41 can reduce the output voltages to prevent overload
Safety system	Thermally protected Short-circuit protected Hot-plugging protected
Start/stop	Soft start/direct stop
Protection class	Class 2
Cable lock	Integrated in lid Mains: 00912007-D
Mounting	Compatible with a wide range of mounting brackets

Usage

Operation temperature	+5 °C to +40 °C
Storage temperature	-10 °C to +50 °C
Relative humidity	20% - 80% - non-condensing
Atmospheric pressure	700 to 1060 hPa
Meters above sea level	Max. 3000 meters

Mains supply grid should be limited to the highest prospective short circuit current of 1,500 A.

Demands to mains supply safety for the application in accordance with IEC 60601-1 ed. 3.2, § 8.11.5

Approvals (pending)	- IEC60601-1 - ANSI/AAMI ES60601-1 - CSA CAN/CSA-C22.2 NO. 60601-1

Ordering example

Product Type	**C**	**C**	=	Control Box		
Handset Input	**O**	**O**	=	Openbus Interface		
Control Box Family	**4**	**4**	=	CA40, CO41		
Colour	**+**	**+**	=	RAL7035 light gray		
H-Bridge	**0**	**0**	=	Half Bridge		
IP Degree	**9**	**9**	=	IPX6 Washable DURA™		
Number of Channels	**4**	**4**	=	4 Channels		
Maximum Output Power	**1**	**1**	=	120 W		
Input Voltage	**1**	**1**	=	100-240 VAC +10 % / -15 %		
Software	**T**	**T**	=	No Application Software	**X** =	Special Customer Software
Wireless Communication	**0**	**0**	=	No Wireless Communication		
Appliance Protection Class	**9**	**9**	=	Class II		
Option	**2**	**2**	=	PCP 2.0		
Cable(s)	**0**	**0**	=	Socket W/O Ground		
Not Used	**0**	**0**	=	Not Used		

Chosen item number: **CO4+09411T09200**

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: CO41

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

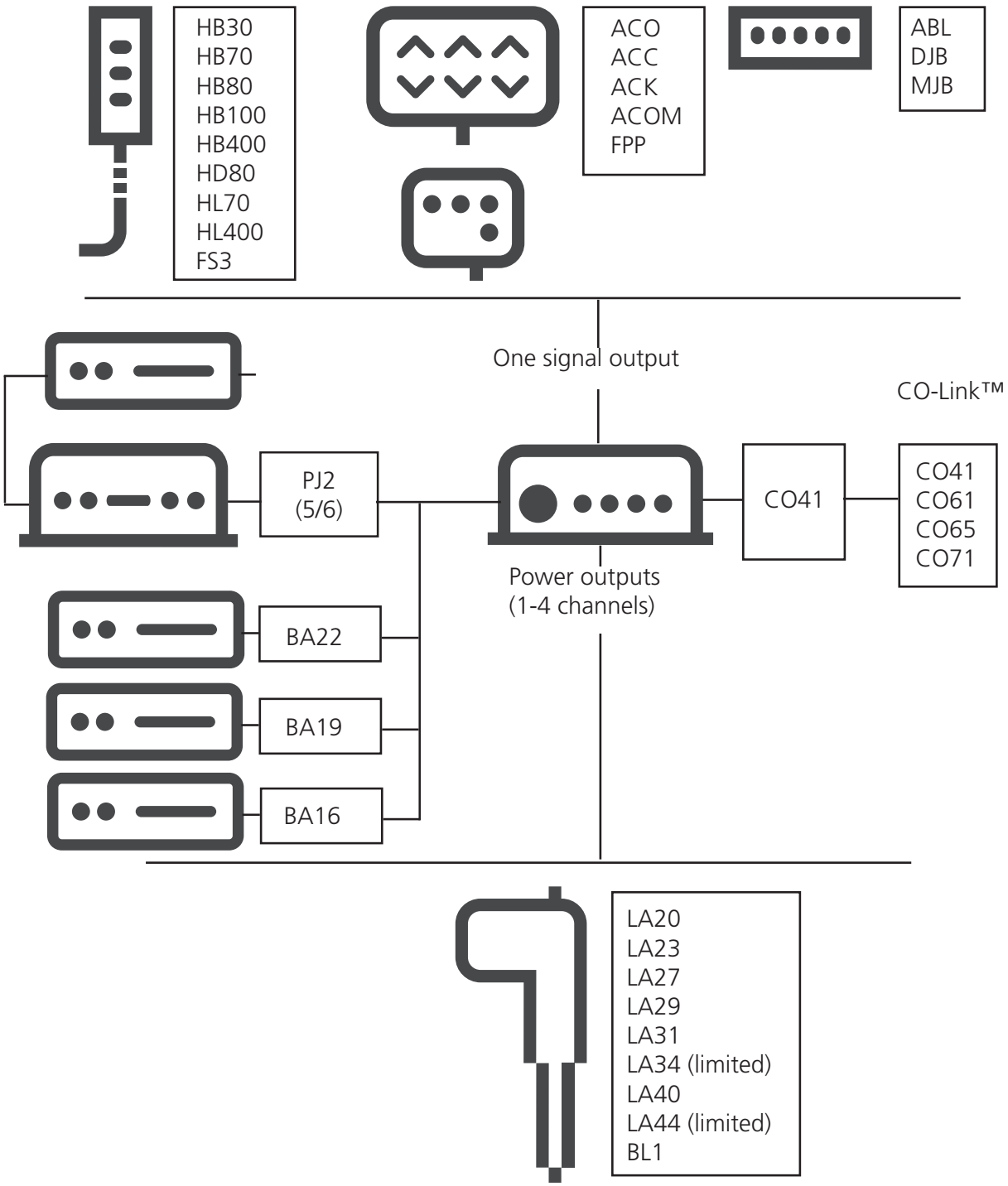
Listed LINAK item for application approval: COS**S*SS**SS*S

" * " 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

System overview



For details see sales backup chapter 3.1.17 CO41 Compatibility.

LED indicator



CO41 is equipped with a green LED for indication of mains power connected.

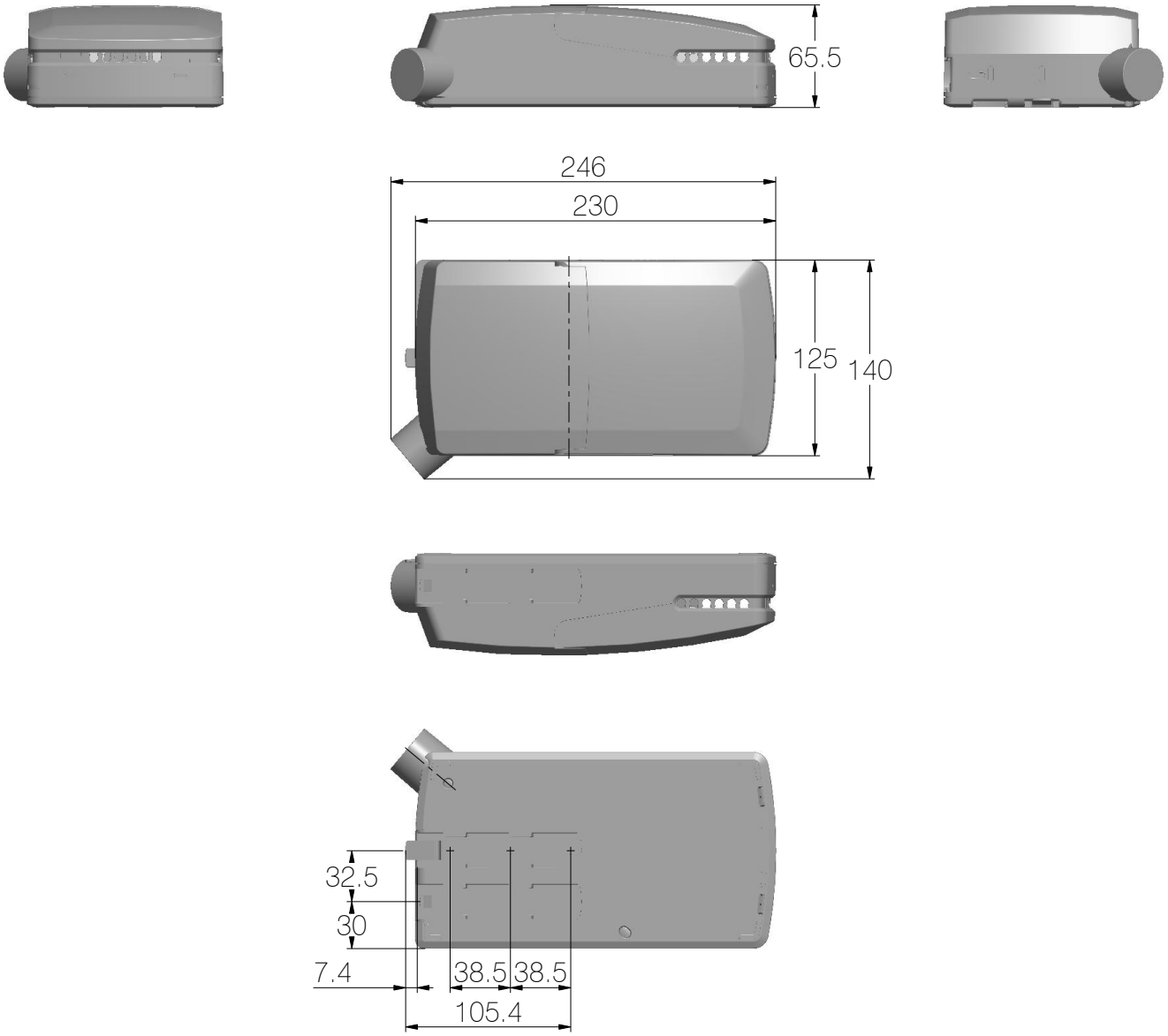
When the CO41 is connected to mains, the LED is green. Connected only to battery, the LED is off.

Acoustic signal functionality

The buzzer will make a warning, when a button on the hand control is pressed, and the battery capacity is low.

The buzzer can also be activated by the control box to signal other conditions. This must be specified in the control box software.

Dimension drawing

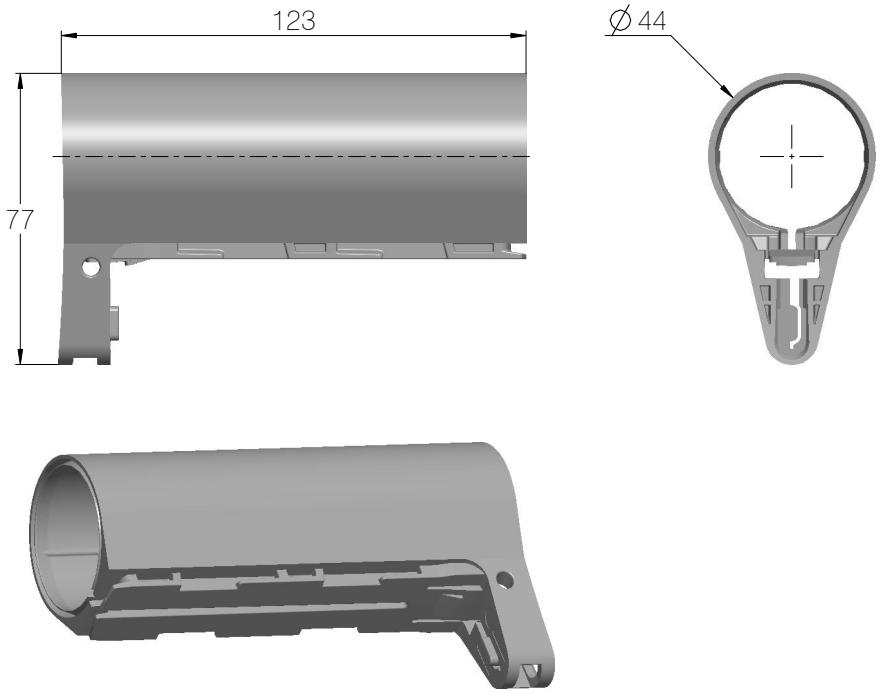


Drawing No.: 1014W4010

Mounting brackets

For mounting with LA40

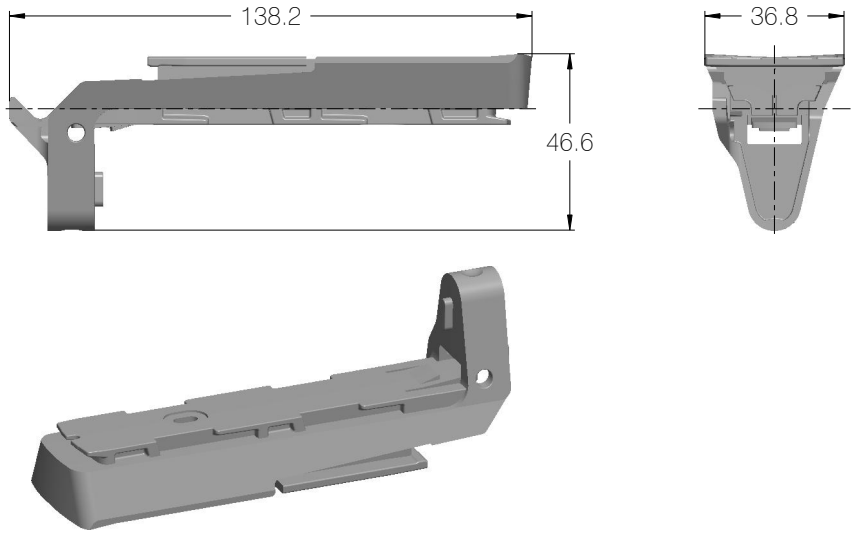
Article No.: 1015W1002



Drawing No.: 1015W4002

For mounting with LA31

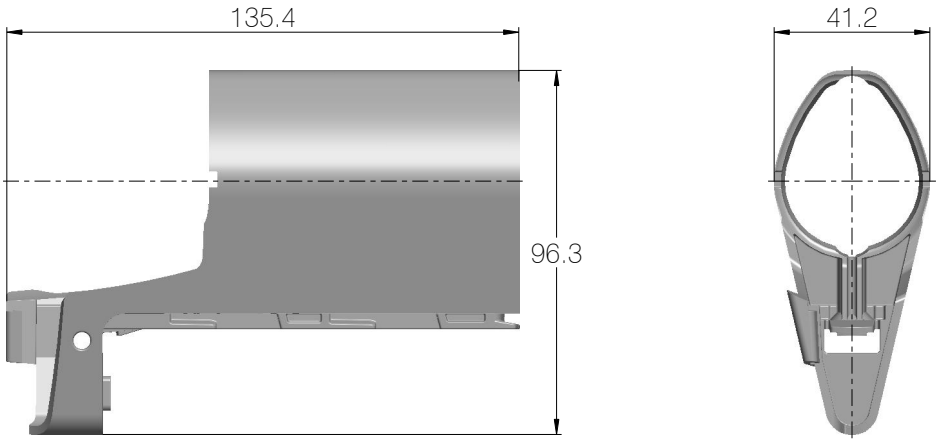
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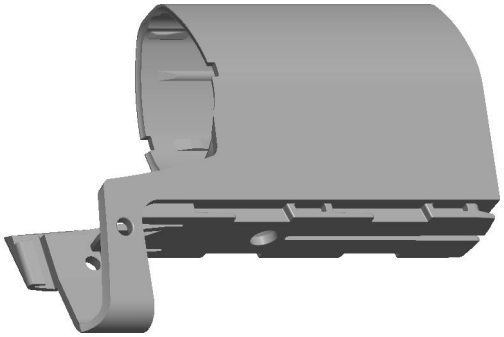


Drawing No.: 1015W4004

For mounting with LA27

(Article No.: 1015W9003)

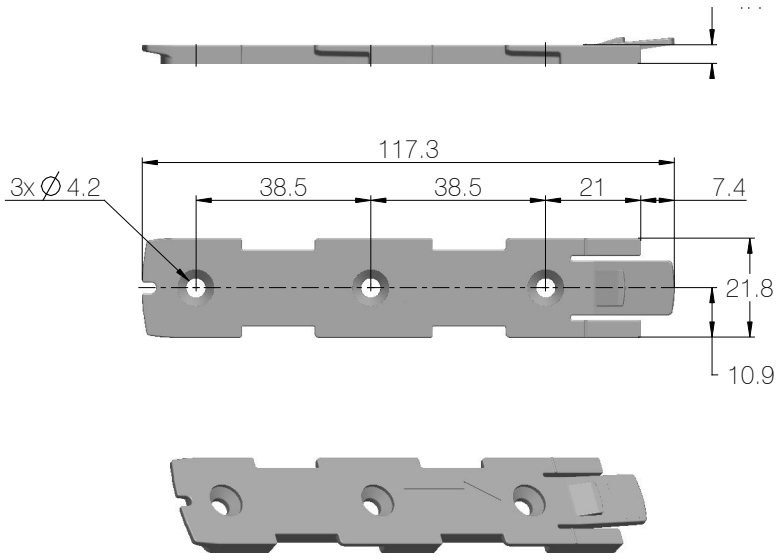




Drawing No: 1015W4003

Mounting bracket (frame flat)

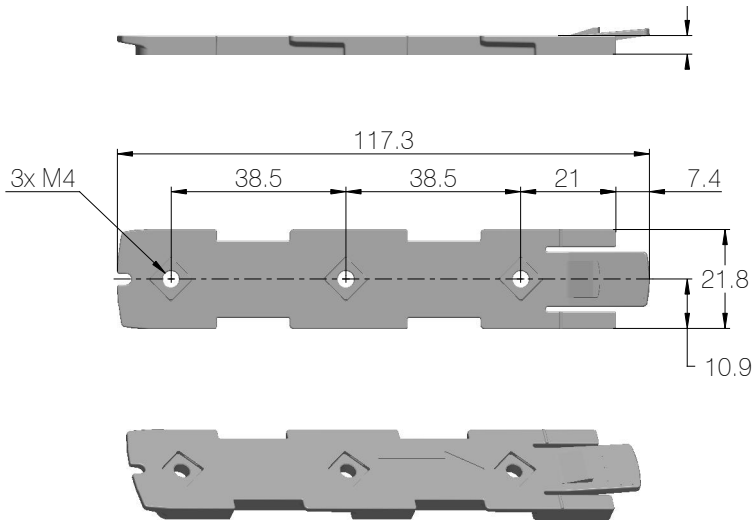
Article No. 1015W1001



Drawing No.: 1015W4001

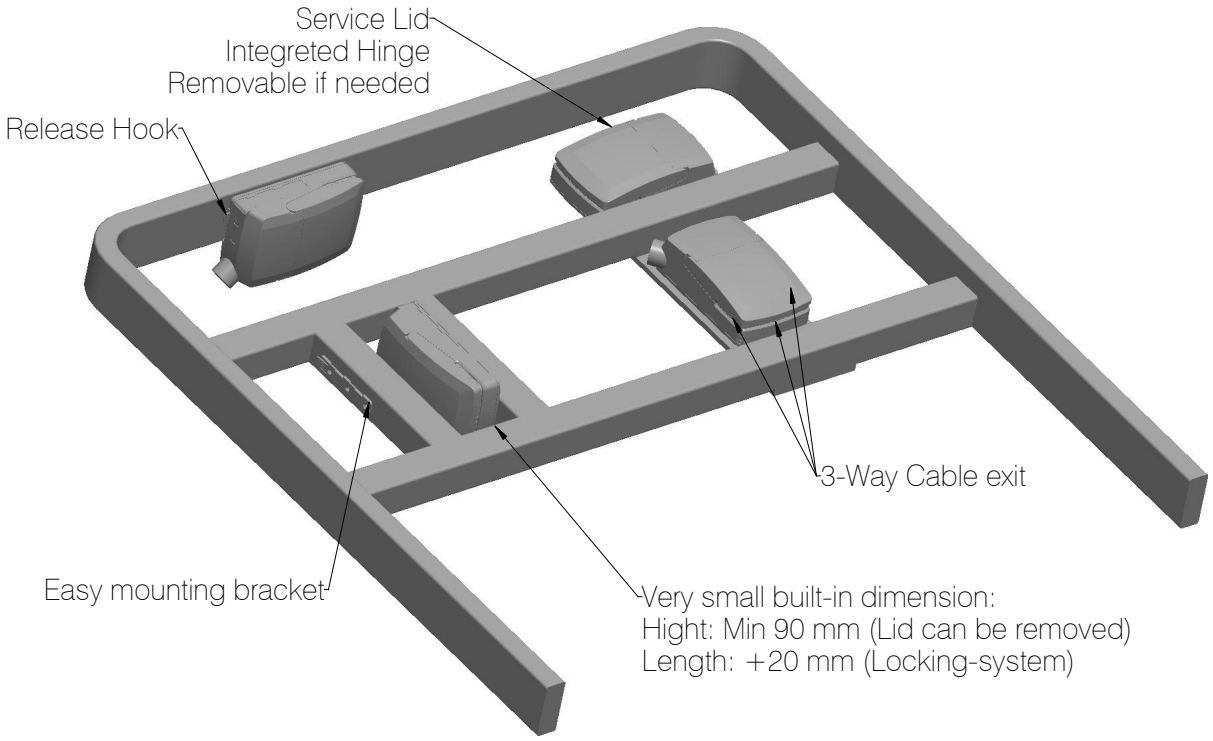
Mounting bracket (frame flat) w/M4 nuts

Article No. 1015W9009



Drawing No.: 1015W4009

Mounted on frame



Drawing No.: 1013W4008

It is recommended that the CO41 is mounted in a position that allows water to escape.

Recommended torque: 0.6 Nm +/-0.1

The bracket can be mounted to the bed frame or any other application by following one of the following mounting procedures:

1. M6 nut to be placed in bracket and fixed with M6 bolt from the rear side.
2. M5 machine screw with flat washer to be fixed through bracket with nut on the rear side.
3. Self-tapping screw to be placed through bracket and onto the frame.

Mounting of cables and cable lock

CO41 has a uniquely designed cable lid. The lid also works as an integrated cable lock when closed.

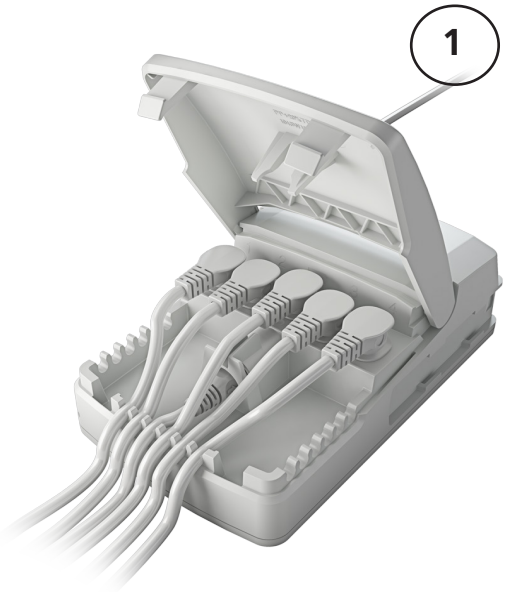
1. Mount cable plugs in control box
2. Close lid until lock snaps into place (see arrows)

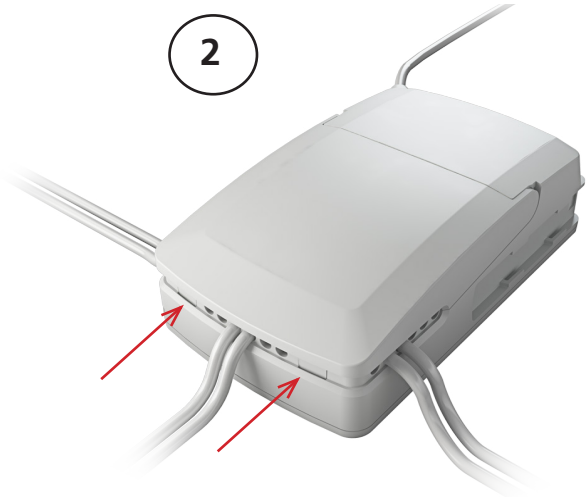
To allow free access to the cables, the lid has a rest position when completely opened.

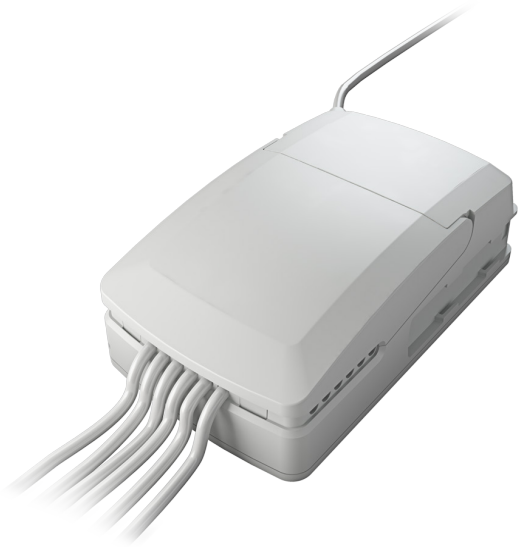
It is possible to remove the lid by lifting it a few degrees and pulling it away from the housing under tight mounting conditions.

Cable management









CO-Link™

Up to 8 channels and 2x120 W (or combinations of all CO-control boxes).

A CO-Link software makes it possible to link two CO41 control boxes (or combinations of all CO-control boxes) into a system with a primary and secondary control box allowing you to run up to 8 channels with 2x120 W.

All CO41 benefits and USPs including:

- 1 control – 2 x CO41s
- 8 channels
- 2 x 120 W
- Standard items
- 2 x 2.85 Ah battery backup – 2 x BA22

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