

# Attendant Control OpenBus™ – ACO Data Sheet



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## Introduction

The Attendant Control OpenBus™ (ACO) is a cost optimised and compact unit with up to 21 buttons that can be used as hand control keys or lock-outs. The lock-out function can be made visible by using yellow LEDs.

The ACO is compatible with control boxes that use an OpenBus interface.

The ACO is for use with advanced hospital and patient care beds (nursing beds) where patient positioning must be carefully controlled by medical staff.

The ACO allows nursing staff to retain direct control over critical positioning functions while giving the patient a limited degree of adjustment. This high degree of selective control is vital in cases such as spinal injuries and other similar conditions where backrest positioning must be carefully supervised.

The ACO is ergonomically designed and easy to install on even the most advanced equipment.

The ACO has a flexible “hook” which enables it to be positioned according to the nurses wishes, out of reach of the patient (for example at the end of the bed), and serves to block the hand control functions that may be inappropriate, or even dangerous to the patient, (for example in connection with a broken leg).

## Features and options

- Controls functions and movement, for instance when using CO-Link™ and OpenBus™
- Ergonomically shaped and easy to hold and operate with two hands
- Standard front cover has improved user layout. The self-explanatory buttons and their functions are easy to locate and operate
- High strength plastic housing protects the electronics
- Cleaning is made fast and easy because of rounded contours and assembly of the cover onto a low edged surface
- Protection against single fault condition according to EN 60601-1 when connected with control boxes that use an OpenBus™ interface
- A LED indicates when the battery is being charged (yellow)
- Protection class: IPX6 or IPX6 Washable DURA™
- Colour: Grey RAL 7035
- Connection to CB or MJB via a “modular jack” cable
- Flexible “hook” (dimensioned to fit onto either a Ø32mm or Ø42mm rail)
- Number of buttons: Up to 21
- It is possible to design front covers according to customer requests



## Usage

|                         |                                                                                |
|-------------------------|--------------------------------------------------------------------------------|
| Operation temperature:  | +5 °C to +40 °C                                                                |
| Storage temperature:    | -10 °C to +50 °C                                                               |
| Relative humidity:      | 20% to 80% – non-condensing                                                    |
| Atmospheric pressure:   | 700 to 1060 hPa                                                                |
| Flammability rating:    | V2                                                                             |
| Meters above sea level: | Max. 3000 meters                                                               |
| Approvals:              | IEC 60601-1<br>IEC 60601-1-6<br>ANSI/AAMI ES60601-1<br>CAN/CSA-22.2 No 60601-1 |

In order to comply with the norm, the ACO must hang vertically from its hook during the washing process.



ACO in vertical position



### Recommendations

- Always use locking ring and cables with O-rings
- Locking ring and cables with O-rings must be fitted to ensure IP degree
- If other front covers than standards are requested, the front cover guidelines should be consulted

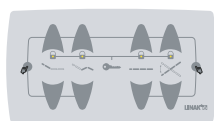


## System overviews

OpenBus™ CB (COxx)



ACO



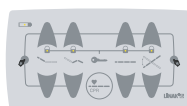
Hand control



OpenBus™ CB (CO53)



ACO



Hand control



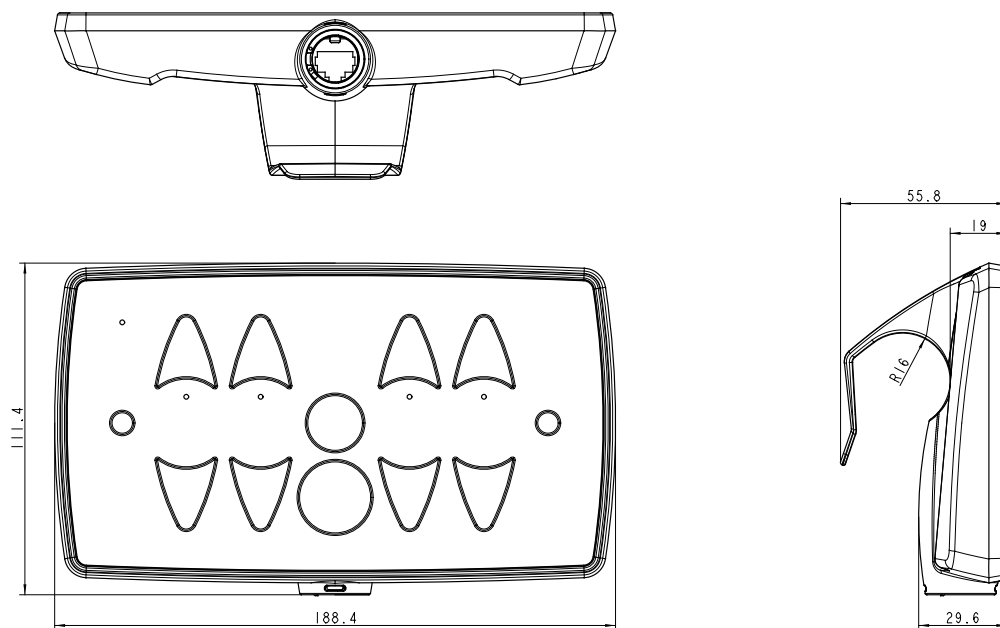
## Ordering example

**ACO 3 0 1 0 0 0 1 0 0 0 6 - 2 1 0 0 0 0 0 0 N N N 0 0 0**

|                           |                                                   |
|---------------------------|---------------------------------------------------|
| Not used                  | 0 = None                                          |
| Not used                  | N = None                                          |
| Not used                  | 0 = None                                          |
| Housing:                  | 0 = Standard                                      |
| Mounting:                 | 1 = Hook ø32 mm<br>2 = Hook ø42 mm                |
| Colour:                   | 2 = Grey RAL7035                                  |
| IP-degree:                | 6 = IPX6<br>W = IPX6 Washable DURA™               |
| Not used                  | 0 = None                                          |
| Background light:         | 0 = None                                          |
| Front cover number:       | XXX = the last 3 digits in the front-cover number |
| Front cover:              | 0 = Standard<br>X = Special                       |
| Functionality:            | 01 = Standard<br>0X = Special                     |
| Number of rows:           | 3 = 3 rows                                        |
| Attendant Control OpenBus |                                                   |



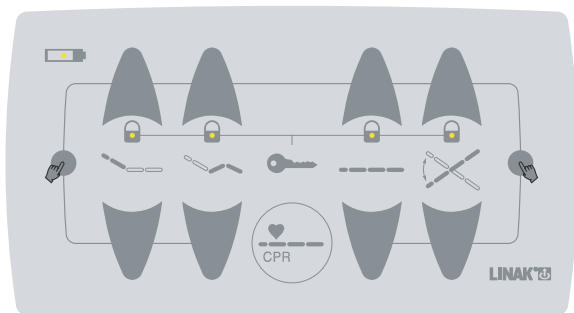
## Dimensions



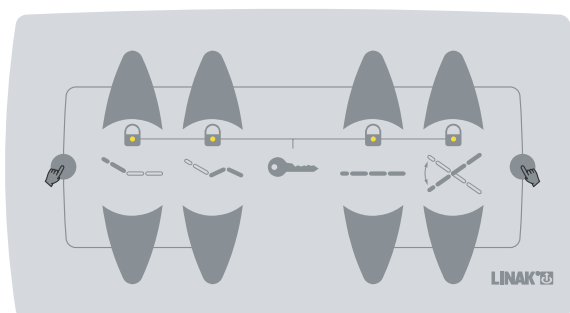
## Dimensions with Ø42 hook



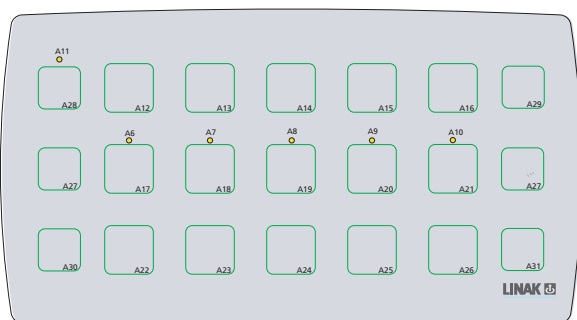
## Standard front covers



00ACO1A-001

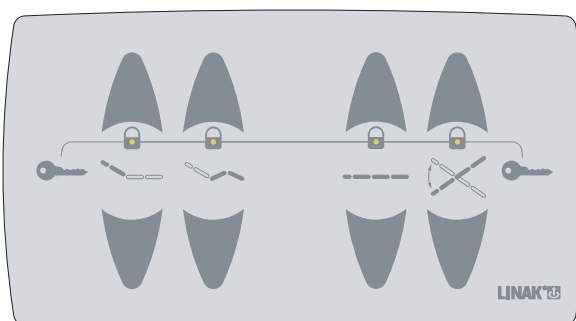


00ACO1A-002

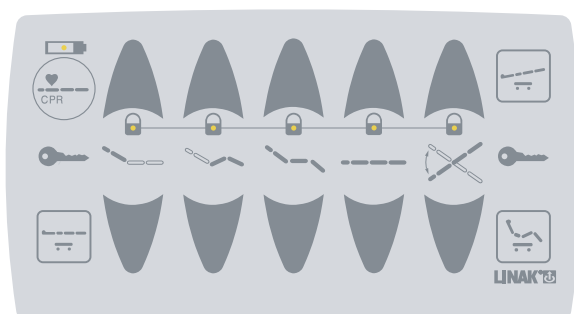


00ACO1A-004

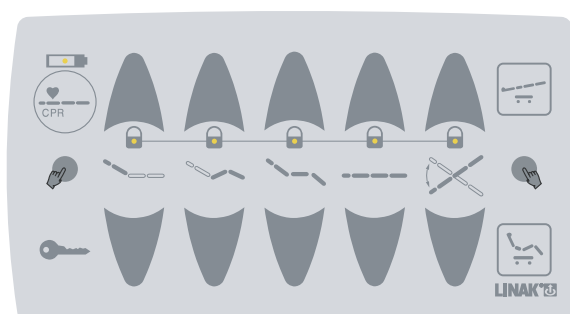
Designed to be used for sample orders,  
SW specification, tests etc."



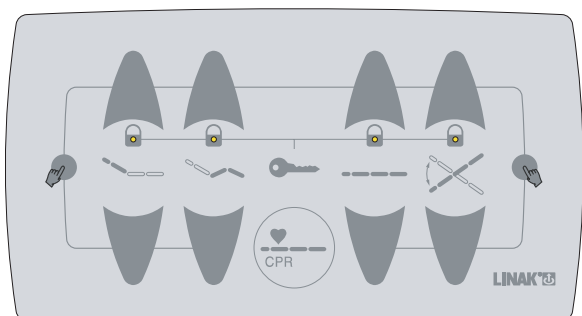
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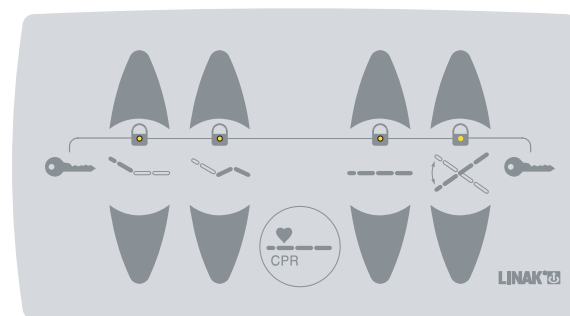
00ACO1A-017



00ACO1A-018

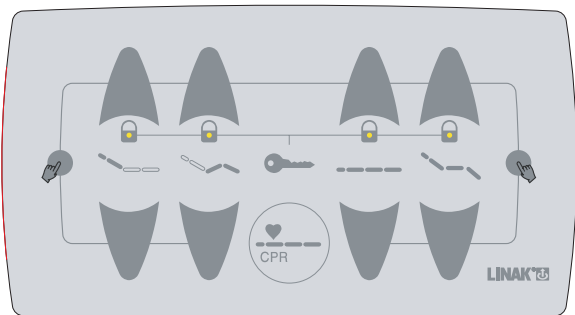


00ACO1A-019

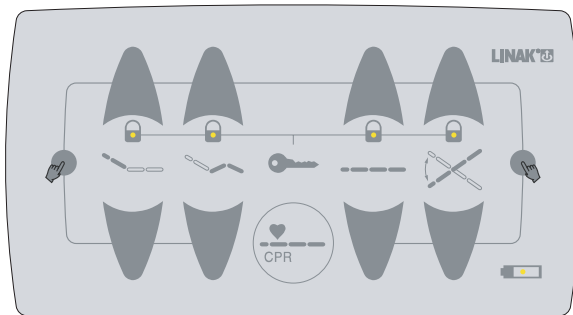


00ACO1A-027





00ACO1A-045



00ACO1A-055

For customised front covers please contact LINAK A/S.

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