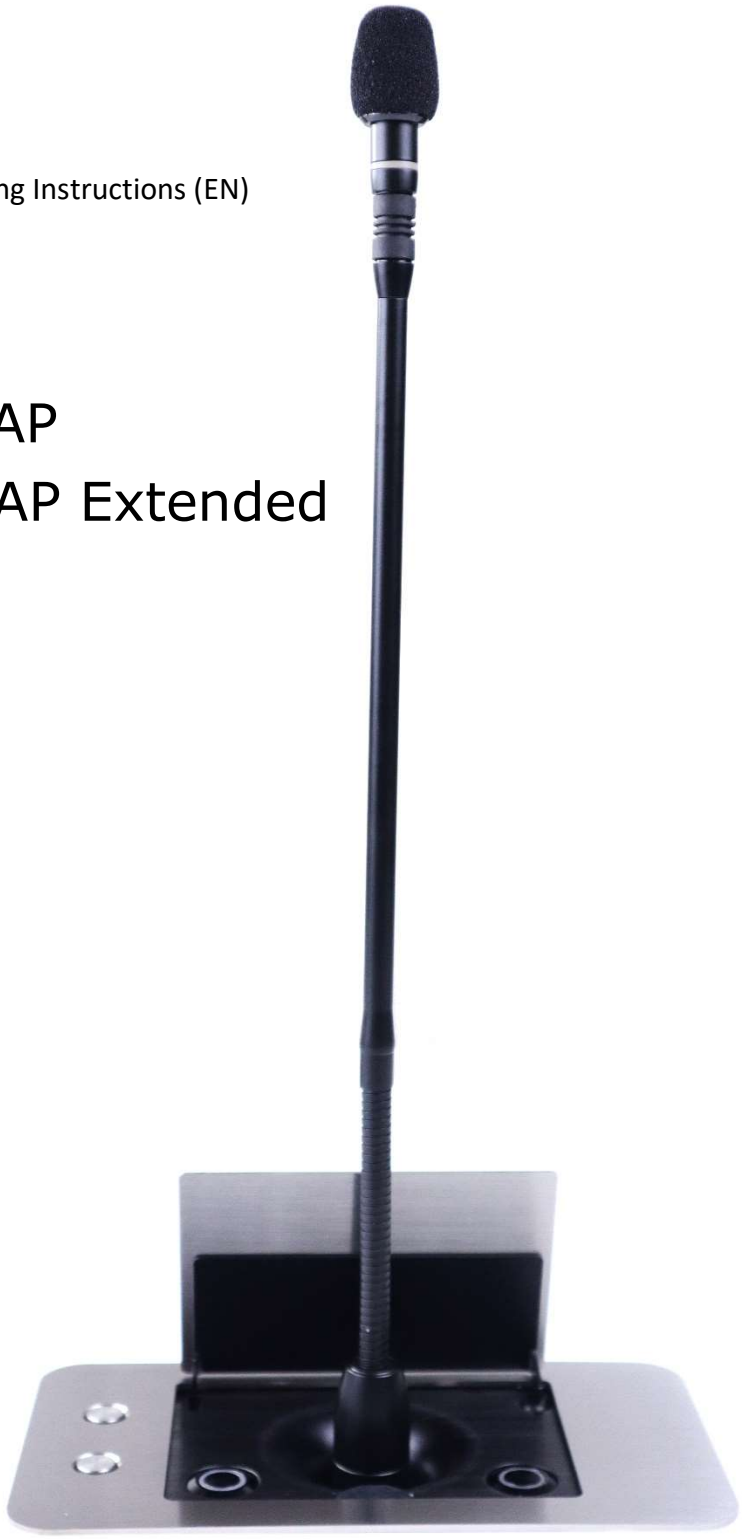
Installation and Operating Instructions (EN)

CONMIC FLAP
CONMIC FLAP Extended



Explanation of symbols

	Important Note
	Caution
	Ban

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Dear Customer,

thank you very much for purchasing our product.

Please read this installation and operating instructions carefully and keep them in a safe place.

In this manual we have endeavored to provide you with all the necessary information to enable you to have most success with the products.

Ralf Küchel
Technical Manager / CTO

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Table of Contents

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Commissioning Date

Date:

Serial No.:

Keep this document for future reference.
Pass on this document when you pass on the device.

Notes

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Scope of Supply

- CONMIC FLAP | CONMIC FLAP Extended
- Table Power Supply - Input: 100-240V AC, 50 / 60Hz. 1.5A; Output: 12V 60W
- MAX 5.A (Cable Length DC ~ 140cm)
- Power Cable 1.5m
- Installation and Operating Instructions / Manual
- [A microphone is not included in the standard scope of delivery].

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Description

The CONMIC FLAP system includes an electromotive retractable microphone carrier with a mounting frame for installation in a horizontal furniture surface.

In the starting position (retracted), the system is level to the furniture surface and covered by a closing flap. By pressing a button, the microphone (not included in the standard scope of delivery) drives into the working position (extended). By pressing again the button, the retraction is triggered. Both movements can be paused by a short push of a button.
The sturdy frame and high-quality mechanical elements ensure smooth running without jerks or vibrations.

To prevent personal injury and damage, CONMIC FLAP has been equipped with a safety control system. If counterforces of 20 N or more occur during extension or retraction, an acoustic signal sounds and the process is interrupted, and a countermovement is initiated for approx. 1 sec.

Features

- Compact housing dimensions
- Lightweight-Design
- Brushed stainless steel mounting frame and closure flap
- LowNoiseDesign & LowEnergy Design
- RJ 45 Interface for TCP/IP Remote conrol
- 9-pin dSub interface for remote control via potential-free switch
- DirectAxleAccess for optional, manual movement
- Digital stepper motor 12V motor, toothed belt drive
- German precision mechanism
- Electronic & Acoustic Diagnostic System
- Durable HighFlex cables
- Integrated universal mounting rails
- All-aluminum housing
- Convenient cable & connection position
- EMC + EMI protected

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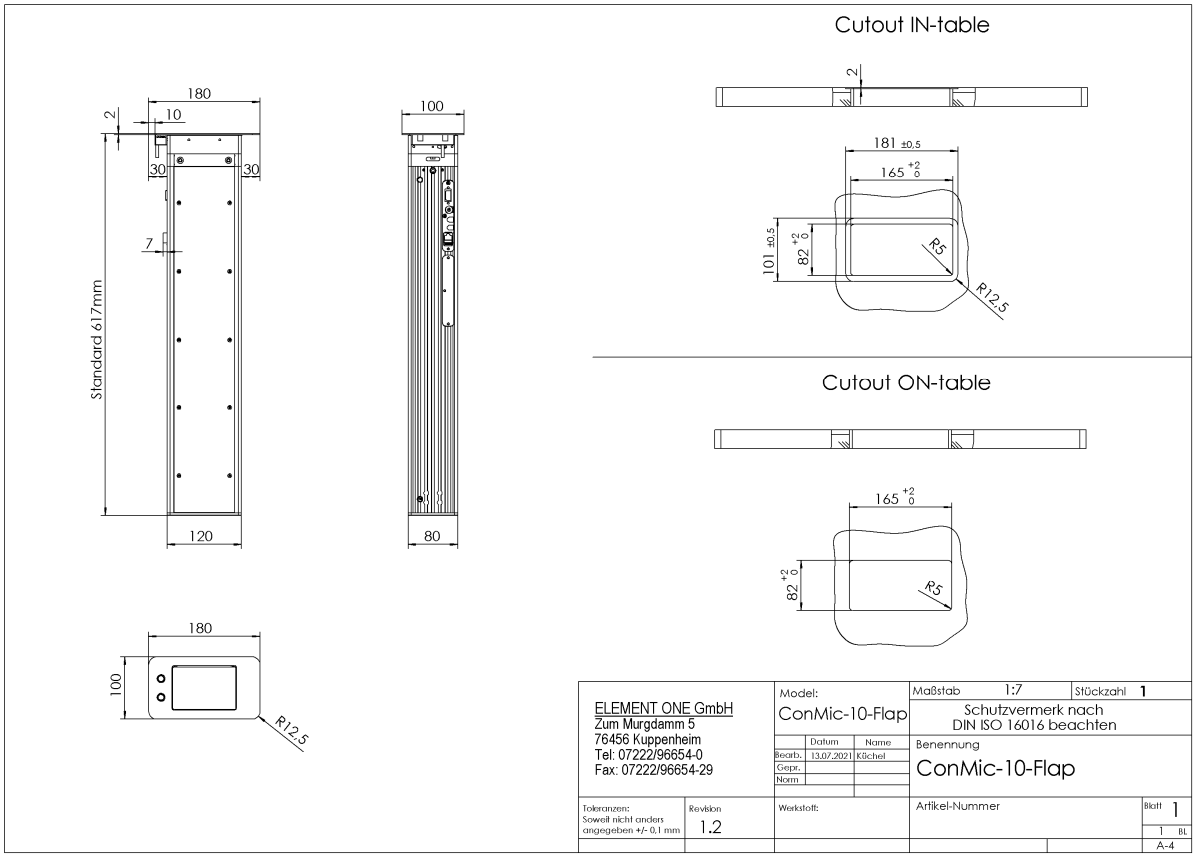
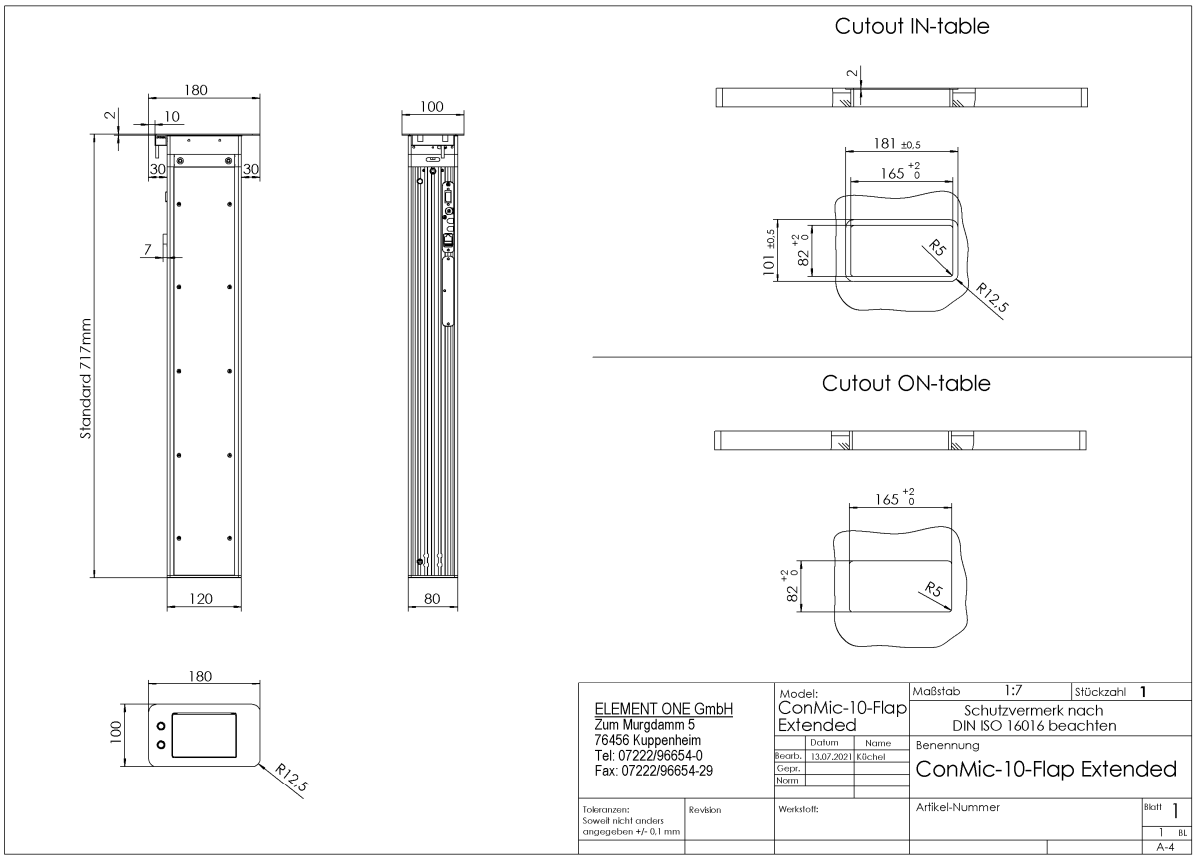
Dimensions





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Safety Instructions


= Important Note


= Caution


= Ban


The device may only be opened by authorized personnel when it is disconnected from the power supply!


Let damage and defects be repaired immediately by authorized specialists.


Do not operate this device with any accessories other than the supplied ones.


Gehäuse niemals gewaltsam öffnen oder schließen!


In the event of damage caused by third-party accessories, e.g. power supply unit, or unauthorized attachments or modifications, any warranty and liability claims are excluded.


Remove all transport locks before start-up. We recommend that you keep them.


To avoid signal transmission errors, use only high-quality cables.


Do not slide sharp or hard objects over the surface, it may be damaged.


Immediately remove any liquids spilled on the surface with a cloth.


Do not load the device with more than 1.0 kg when closed.

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Installation

= Important Note

= Caution

= Ban

Make sure that your furniture has sufficient load-bearing capacity and strength against deflection and warping even after it has been weakened by the cut-out!

Stresses on the mechanics due to tension, pressure or shock can lead to damage or malfunctions. Therefore, ELEMENT ONE devices should not be transported in their installed state!

In the case of mandatory transport in the installed state, the following conditions must be observed:

- Retract microphone carrier | Close device
- Transport and store devices vertically, i.e. according to the installation position
- Do not tilt furniture with built-in appliances
- Secure devices against slipping and falling out
- observe the permissible load on the device, do not stack it.

ELEMENT ONE units are held in the furniture by means of the decorative/holding frame. The optionally supplied clamping holders to be attached at the side are intended for horizontal alignment and fastening in the furniture. Please note that these may only be applied lightly (risk of damage to the furniture or tensioning of the device mechanics and thus possible malfunction of the movement mechanics).

For customer´s mounting, ELEMENT ONE will provide an installation drawing upon request.

The table cutout must be milled or sawn out before mounting the unit and according to the installation drawings (see dimensions)

It is recommended to install the device with two people.

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1

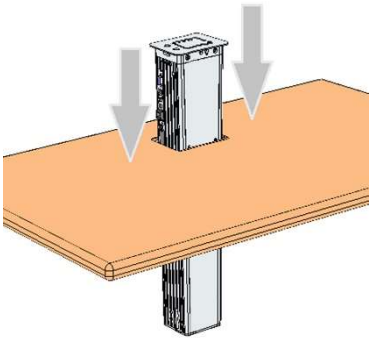
Please open the carton at the marked top and CAREFULLY place it horizontally on the floor or a clean, flat surface.

Please remove the device from the packaging by first removing the two foam pads, then the plastic protective cover

Please carry the device by holding it on the right and left side of the housing.

2

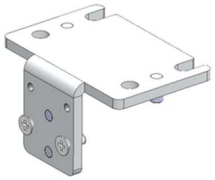
Insert the unit vertically into the previously milled table cutout.



When inserting the device into the table cut-out provided for this purpose, make sure that the outgoing cables (connectors) on the side are not damaged.

3

Attach the two [optionally] supplied substructure clamp holders to achieve sufficient stability and secure the unit against tilting.



Alternatively, suitable own solutions can be attached to the table for secure mounting.

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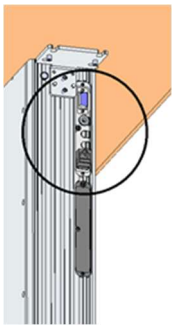
Commissioning

= Impotant Note

= Caution

= Ban



General Information

No PoE

The network used for IP-based control of the monitors must not support the PoE (Power-over-Ethernet) function!

Switch-on delay

A LAN-capable system is only ready for operation with a delay of approx. 60 sec. after power-on. delay if a temporary or static IP address to be assigned by the network cannot be allocated, or, in the case of a device with a permanently programmed IP address, this special identifier is not set up or not available in the customer network, or if the device in question is not connected to the network via LAN cable when it is switched on.

If an IP address is not assigned or is assigned incorrectly, the device does not start until a timeout of approx. 60 seconds has elapsed. Please wait until you hear a beep signal.

Stresses on the cables caused by pulling and rubbing against components shorten the lifetime and can lead to damage and malfunctions. The cables should be fastened and laid after commissioning.

The following conditions must be observed:

- Do not fall below minimum radii
- Maintain distances to mounting points and structural elements

All edges are chamfered or rounded in the area of the cables.

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⚠ Ensure that the cables are not pinched during insertion.

Ensure that all screw connections are secure.

Electrical connections should only be carried out when the device is disconnected from the power supply.

CONMIC FLAP | CONMIC FLAP Extended

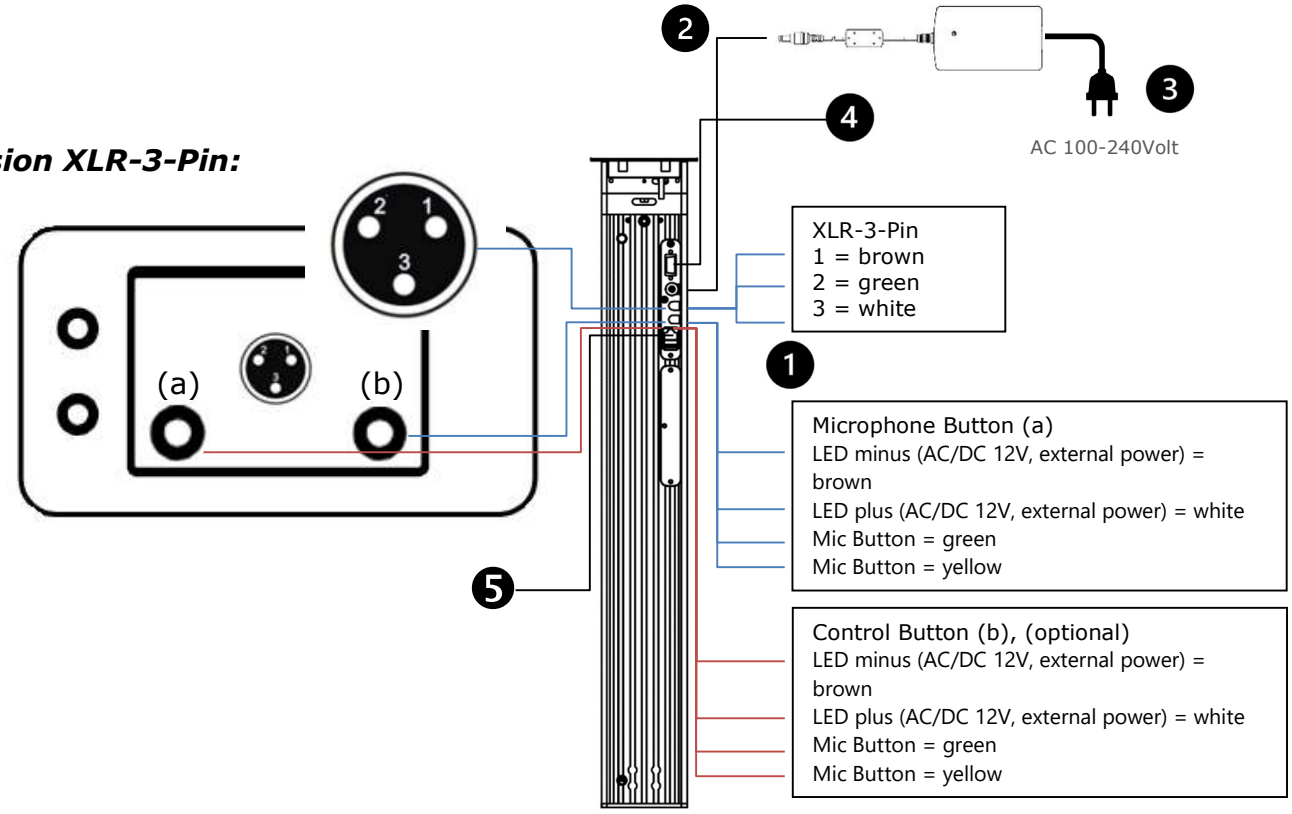
Insert the device into the cut-out.

1. Connect the microphone and the microphone/delegate (a) and control/chairman (b) buttons (optional) to the cable ends according to the manufacturer's specifications. XLR cables and microphone pushbutton cables have open wire ends.
2. Connect the DC plug to the DC socket of the power supply.
3. Connect the AC plug of the power supply to the mains.
4. Connector for remote control instead of housing button (9pin dSub, optional. The use of the original ELEMENT ONE cable remote control or connection cable is recommended).
5. Connection for RJ45 / LAN

Execute a functional test and then fasten the cables.

⚠ Check that there is clearance for the movement of the cables.

Version XLR-3-Pin:



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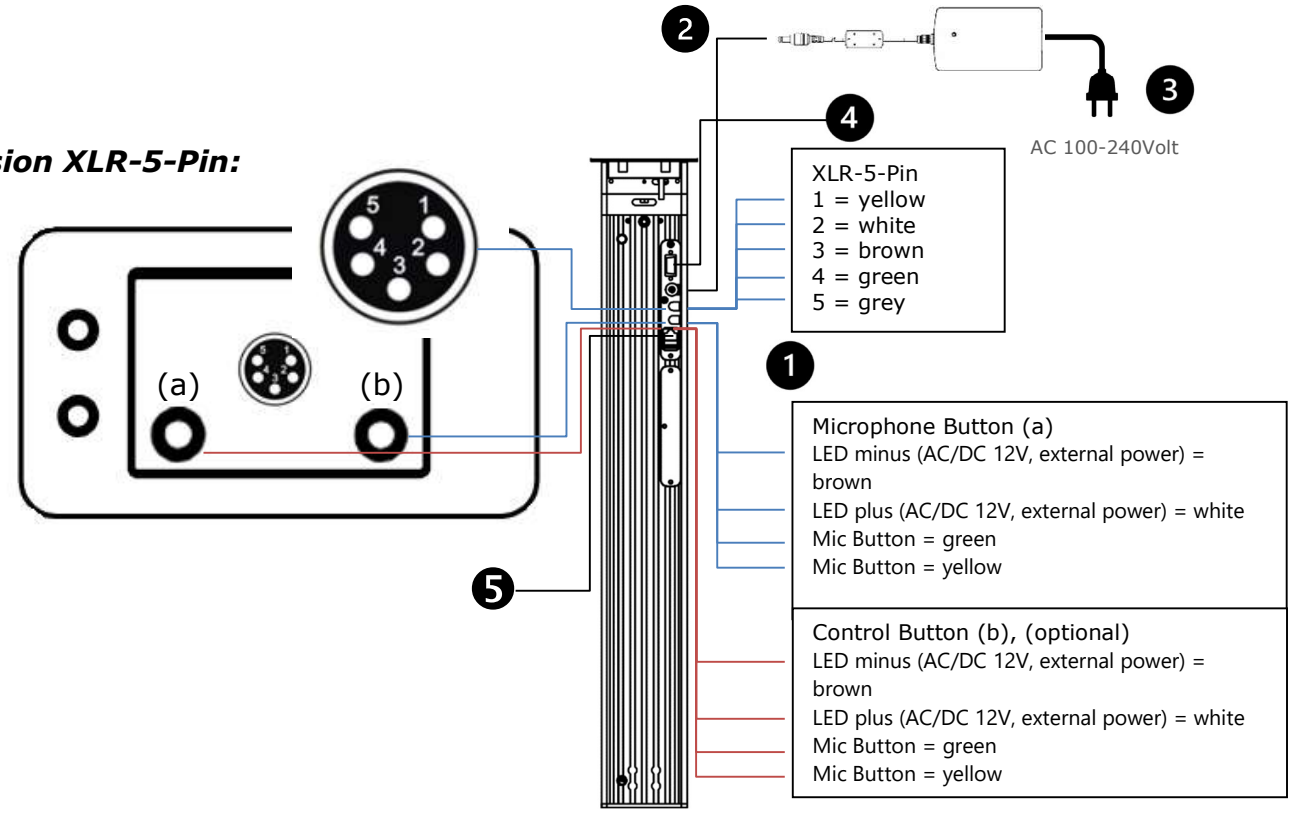
Version XLR-5-Pin:



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Operation

General Information

⚠ Make sure that no body parts and/or objects are between the frame, microphone carrier and other mechanical components.

⚠ Do not reach into the device if you discover objects between the frame and microphone during closing! Interrupt the closing process by briefly pressing the A button!

⚠ Do not close the device by force!

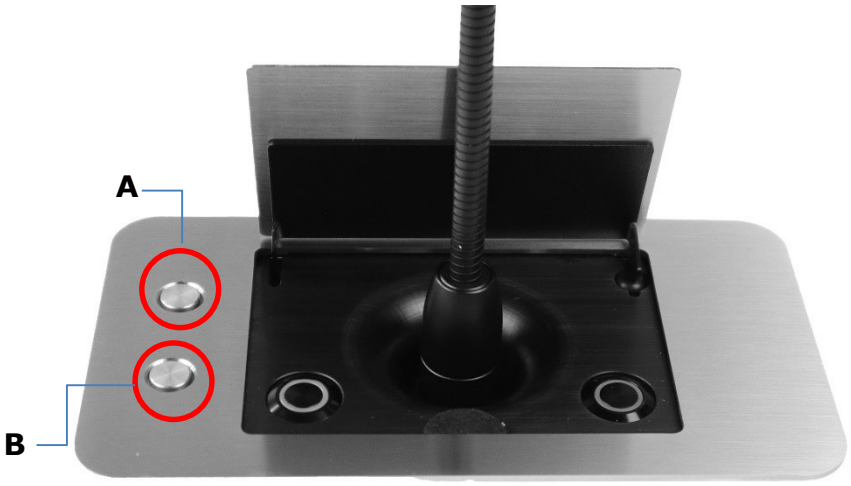
⚠ Make sure that no objects on the surface obstruct the operation.

⚠ Do not place any objects in the area of the retract mechanism.

Raising

Press the **A** button on the left side of the frame and the microphone raises.

The procedure can be interrupted in any position by briefly pressing the button **B**.



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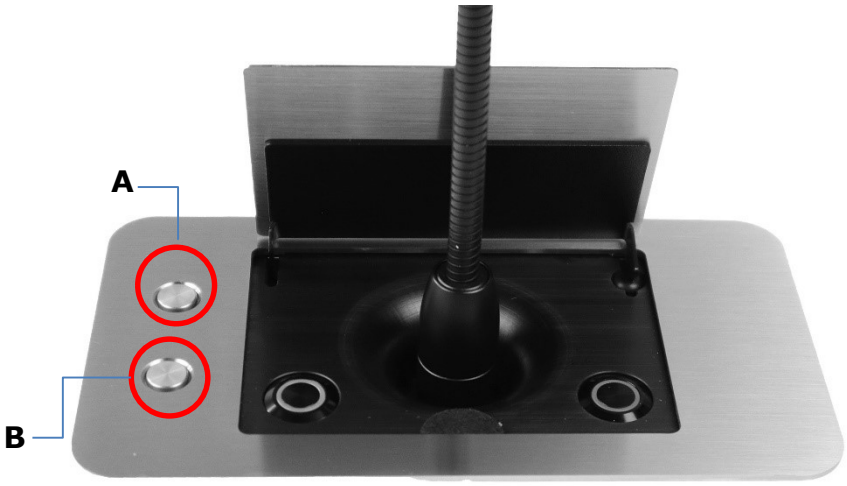
Microphone operation

(a) Microphone on/off
(b) Control (optional)

Retracting

Press the **B** button and the microphone will retract automatically.

By briefly pressing the **A** button, the extension can be interrupted in any position.



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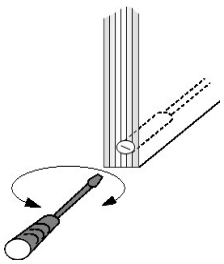
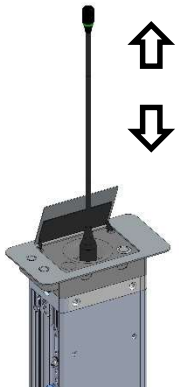
Service function DIRECT AXLE ACCESS (DAA)





CONMIC FLAP is equipped with DIRECT AXLE ACCESS (DAA), a useful feature for installation and maintenance. This allows you to extend and retract the microphone manually, i.e. without a power supply. Access is located on the right and left bottom of the side of the case. You will need a slotted screwdriver or a cordless screwdriver to operate it.

⚠ When using the DIRECT AXLE ACCESS (DAA), follow the same safety instructions as for regular extension and retraction (see Operating, General)

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Care Instructions

 = Important Information

 = Caution

 = Ban

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 Disconnect the power supply plug before cleaning work!

 To clean the device, use only cloths moistened with water or detergent.

 Do not use abrasive cleaners, alcohol, thinners or similar chemicals.

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TCP/IP - Control and Status request

z

Every CONMIC FLAP is equipped with a Cat-5 LAN cable socket as a network interface.
Via this interface, the device can be operated IP-based with control commands (e.g. via a media control system or via a smartphone app).

Depending on your requirements, the CONMIC FLAP can be controlled via the network accordingly

• either via automatic / dynamic IP address allocation in their LAN network

• or via static IP address allocation, assigned in their network manually to the MAC address of each device.

For control, a TCP-based, text protocol is used. To send a command, a TCP connection must be established to the unit on port 8282.

Parameters are separated from one another by a space. Each command and each response ends with a Carriage Return (<CR>) plus a Line Feed (<LF>).

IP command list (based on Ethernet Protocol Vers. 1.00)		
Command	Function	Response/message
move up	Unit opens	OK: if microphone retracted or movement stopped ERROR: if microphone moving in or out
move down	Unit closes	OK: if microphone extended or movement stopped ERROR: if microphone moving in or out
stop	Stops microphone movement	always OK
status	Requests information on current position of microphone	OK open: if microphone extended or stopped OK closed: if microphone retracted
devicedetails	Requests information on type of unit	OK microphone system
protocol	Requests information on Ethernet protocol version	OK 1.00: in the case of Ethernet protocol vers. 1.00
check	To check whether connection to unit is working	OK: if monitor fully retracted or extended ERROR: if microphone in intermediate position Unit response is always OK if the unit can be contacted over the network, no response if it cannot be contacted
lock on	Blocks control of the unit with the push button *temporarily*	Temporarily = until unit is restarted Unit response always OK, even if already temporarily blocked
lock off	Cancels *temporary* blocking of push button control	Unit response always OK, even if not blocked
lock perm on	Blocks control of the unit with the push button *permanently*	Permanently = until block is cancelled by "lock perm off" command; cancellation by turning off the supply is *not* possible Unit response always OK, even if already permanently blocked
lock perm off	Cancels *permanent* blocking of push button control	Unit response always OK, even if not blocked

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Control via a Media Control System with 9-pin d-sub Remote Interface

Do not apply external voltage!

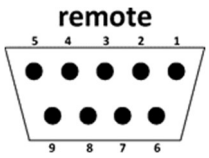
Pins may not be bridged!

Current pulse for switching = approx. 15 mA at 12 V DC

To **extend** connect Pin 1 to Pin 2

To **retract** connect Pin 3 to Pin 4

1-2 = up
3-4 = down
5 = out 12V/0,1 A max. 9 = GND



Firmware Update (Authorized Personnel only)

It is possible to update the firmware of the E1 device. To execute the firmware update, the device must be connected to a specially configured PC / laptop by means of an adapter cable.

The firmware update requires:

- a special Configurator Software (E1 product),
- a special USB adapter cable (E1 product),
- an appropriately configured PC / notebook

Detailed information is available on request on the firmware update procedure, the system requirements for the PC/laptop used and how to obtain the special hardware and software required.

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Technical Specification

CONMIC FLAP	**CONMIC FLAP Extended**
Vertically retractable microphone lift for flush mounting in tables. Electromotive mechanism for retracting and extending a gooseneck microphone. 12 V stepper motor with precise synchronization when using several CONMIC. Maintenance-free, virtually noiseless: < 40 dB. Control via pushbutton in device frame or remote interface TCP/IP or contact. Microphone not included in the scope of delivery.	Vertically retractable microphone lift for flush mounting in tables. Electromotive mechanism for retracting and extending a gooseneck microphone. 12 V stepper motor with precise synchronization when using several CONMIC. Maintenance-free, virtually noiseless: < 40 dB. Control via pushbutton in device frame or remote interface TCP/IP or contact. Microphone not included in the scope of delivery.
Material: Milled, anodized aluminum & stainless steel; visible mounting frame and cover flap: brushed stainless steel	Material: Milled, anodized aluminum & stainless steel; visible mounting frame and cover flap: brushed stainless steel
Mass: 4.5 kg	Mass: 4.6 kg
Domensions: 180 x 100 x 617mm (BxLxT)	Dimensions: 180 x 100 x 717mm (BxLxT)
Power consumption: typ. 15 Watt	Power consumption: typ. 15 Watt
Motion: Stepper motor, timing belt drive	Motion: Stepper motor, timing belt drive
Microphone length max.: 430mm, gooseneck microphone	Microphone length max.: 530mm, gooseneck microphone
Microphone control: 1x integrated LED button (Delegate) or 2x integrated LED button (Chairman); to be specified in the order LED Color: Blue Lamp voltage: 12V | AC/DC 12V Switching capacity: AC220V/0.5A, DC36V/2A Contact resistance: ≤50mΩ Insulation Resistance: ≤1000MΩ Dielectric strength: 1,500V, RMS 50Hz, 1min	Microphone control: 1x integrated LED button (Delegate) or 2x integrated LED button (Chairman); to be specified in the order LED Color: Blue Lamp voltage: 12V | AC/DC 12V Switching capacity: AC220V/0.5A, DC36V/2A Contact resistance: ≤50mΩ Insulation Resistance: ≤1000MΩ Dielectric strength: 1,500V, RMS 50Hz, 1min
Microphone Interface: according to microphone type which is installed	Mikrofon-Schnittstelle: entsprechend Mikrofon-Typ, welches eingebaut wird
Remote control: 9-pin d-sub serial + RJ45 TCP/IP for device control - and setting of extension parameters as well as firmware update (E1 cable and software required)	Remote control: 9-pin d-sub serial + RJ45 TCP/IP for device control - and setting of extension parameters as well as firmware update (E1 cable and software required)
Operating temperature: 0°C to +50°C, without direct sunlight or other heat sources	Operating temperature: 0°C to +50°C, without direct sunlight or other heat sources
Storage temperature: -20°C to +60°C, without direct sunlight or other heat sources	Storage temperature: -20°C to +60°C, without direct sunlight or other heat sources
Operating humidity: 10% to 95% RH, non-condensing	Operating humidity: 10% to 95% RH, non-condensing
Storage humidity: 10% to 95% RH, non-condensing	Storage humidity: 10% to 95% RH, non-condensing
Scope of delivery: Desktop power supply - input: 100-240V AC, 50/60Hz. 1.5A; Output: 12V 60W	Scope of delivery: Desktop power supply - input: 100-240V AC, 50/60Hz. 1.5A; Output: 12V 60W
MAX 5.A (cable length DC~140cm) Power cable 1.5m	MAX 5.A (cable length DC~140cm) Power cable 1.5m

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Safety Standards

VESA: DPMS
DDC2B-Standard (Version 2 Level B)

FCC

For optional accessories, observe the instructions enclosed with them!

Declaration of Conformity

We declare under our sole
responsibility that
devices of the series
CONMIC
comply with the regulations
2006/42/EG, 2006/95/EG,
2004/ 108/EG
Harmonized standards applied:
EN ISO 12000:2010
EN 60950-1+A1:2010
EN 55022:2010
EN 55024:2010
EN 61000-3-2/A1/ A2:2009
EN 61000-3-3:2008

Kuppenheim, 01.06.2023

Ralf Küchel
Technical Manager / CTO

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Warranty

(1) The warranty for ELEMENT ONE products is as follows from the date of purchase

- 60 months on all purely mechanical components, and
- 24 months on all electrical and electronic components.

In the case of a purchase that is a commercial transaction for both parties, the customer must report defects of any kind - except hidden defects - in writing within eight working days (Saturday does not count as a working day) after delivery; otherwise the goods are considered approved. Hidden defects must be notified in writing within eight working days (Saturday does not count as a working day) after discovery; otherwise the goods shall be deemed to have been approved also in view of these defects.

(2) In the event of injury to life, limb or health for which we are responsible, as well as in cases of intent and gross negligence, the limitation period for material defect claims shall be two years. Otherwise, the limitation period for material defect claims shall be one year.

(3) Insofar as the delivered goods have a not insignificant defect, the customer may demand, at our discretion, either the rectification of the defect (subsequent improvement) or the delivery of a defect-free item (replacement delivery) as subsequent performance. If we are not prepared or not in a position to rectify the defect/replace the delivery, in particular if this is delayed beyond a reasonable period of time for reasons for which we are responsible, or if the rectification/replacement delivery fails in any other way, the customer shall be entitled, at his discretion, to withdraw from the contract or to reduce the purchase price, provided that further attempts at subsequent performance are unreasonable for him.

(4) There shall be no warranty obligation for normal wear and tear, in particular on parts subject to wear and tear. Furthermore, there shall be no warranty obligation if damage to or malfunctions of the delivery item occur due to improper handling or use of unsuitable operating conditions.

(5) We shall only be liable for damage due to defectiveness of the delivery item within the limits specified in Clause 8.

(6) Insofar as the defective delivery item is a third-party product, we shall be entitled to assign our material defect claims against our upstream suppliers to the customer and to refer the customer to their (legal) recourse. Claims may only be asserted against us under subsections 3 and 5 if the claims against our upstream suppliers cannot be enforced despite timely (judicial) recourse or if recourse is unreasonable in the individual case.

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