



Desk Tracking System User manual

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Preface

Dear User,

We are delighted that you have chosen a product from LINAK®.

LINAK systems are high-tech products based on many years of experience in the manufacture and development of actuators, electric control boxes, controls and chargers.

This User Manual does not address the end-user. It is intended as a source of information for the manufacturer of the equipment or system only, and it will tell you how to install, use and maintain your LINAK electronics. It is the responsibility of the manufacturer of the end-use product to provide a User Manual where relevant safety information from this manual is passed on to the end-user.

We are sure that your LINAK product will give you many years of problem-free operation.

Before our products leave the factory they undergo full function and quality testing. Should you nevertheless experience problems with your systems, you are always welcome to contact your local dealer.

LINAK subsidiaries and some distributors situated all over the world have authorised service centres, which are always ready to help you.

LINAK provides a warranty on all its products. This warranty, however, is subject to correct use in accordance with the specifications, maintenance being done correctly and any repairs being carried out at a service centre, which is authorised to repair LINAK products.

Changes in installation and use of LINAK systems can affect their operation and durability. The products are not to be opened by unauthorised personnel. You can review the full terms of the LINAK warranty on the LINAK website www.linak.com/warranty.

The User Manual has been written based on of our present technical knowledge. We are constantly working on updating the information and we therefore reserve the right to carry out technical modifications.

LINAK A/S

Important information

Important information on LINAK® products can be found under the following headings:



Warning!

Failure to comply with these instructions may result in accidents involving serious personal injury.



Failing to follow these instructions can result in the product being damaged or being destroyed.

Safety instruction



General

Safe use of the system is possible only when the operating instructions are read completely and the instructions contained are strictly observed.

Failure to comply with instructions marked with the "NOTE" symbol may result in serious damage to the system or one of its components.



It is important for everyone who is to connect, install, or use the systems to have the necessary information and access to this User Manual. Follow the instructions for mounting – risk of injury if these instructions are not followed.



The appliance is not intended for use by young children or infirm persons without supervision.



If there is visible damage on the product it must not be installed.



Note that during construction of applications, in which the actuator is to be fitted, there must be no possibility of personal injury, for example the squeezing of fingers or arms.



Assure free space for movement of application in both directions to avoid blockade.

Only for EU markets



This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have given supervision or instruction concerning the use of the appliance in a safe way and understand the hazards involved.



Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

Only for Non EU markets



Persons who do not have the necessary experience or knowledge of the product/products must not use the product/products. Besides, persons with reduced physical, sensory or mental abilities must not use the product/products, unless they are under surveillance or they have been thoroughly instructed in the use of the apparatus by a person who is responsible for the safety of these persons.



Moreover, children must be under surveillance to ensure that they do not play with the product.

Misuse



Do not overload the actuators – this can cause danger of personal injury and damage to the system.



Do not use the actuator system for lifting persons. Do not sit or stand on a table while operating – risk of personal injury.



Do not use the system in environments other than the intended indoor use.

Informations importantes

Les informations importantes sur les produits LINAK® peuvent être trouvées dans les rubriques suivantes:



Attention!

Le non respect de ces instructions peut entraîner des accidents impliquant des blessures graves.



Ne pas suivre ces instructions peut entraîner l'endommagement ou destruction du produit.

Consignes de sécurité



Général

Le non respect de ces instructions peut entraîner des accidents impliquant des blessures graves.

Ne pas suivre ces instructions peut entraîner l'endommagement ou destruction du produit.

L'utilisation en toute sécurité du système n'est possible que si l'intégralité des instructions ont été lues et ont été strictement suivies.



Le non respect de se conformer aux instructions marquées du symbole "note" peut entraîner de graves dommages au système ou à un de ses composants.

Il est important pour tout individu qui connecte, installe, ou utilise le système d'avoir les informations nécessaires et l'accès à ce manuel d'utilisation.

Suivez les instructions pour le montage – risque de blessure si ces instructions ne sont pas suivies.



L'appareil n'est pas destiné à être utilisé par des enfants ou des personnes handicapées sans surveillance.



S'il y a des dommages visibles sur le produit, l'installation ne doit pas être effectuée.



Prendre en compte lors de la construction du matériel, dans lequel l'actionneur est incorporé, qu'il ne doit y avoir aucune possibilité de blessures corporelles, telles que la compression des doigts ou des bras.



Assurez un espace libre autour du matériel pour éviter tout blocage.

Seulement pour les marchés au sein de l'UE:



Cet appareil peut-être utilisé par des enfants âgés de 8 ans et plus, ainsi que les personnes dont les capacités physiques, sensorielles ou mentales sont réduites ou ayant un manque d'expérience et de connaissance si elles ont bénéficié d'une surveillance ou d'instructions concernant l'utilisation de l'appareil en toute sécurité et compris les risques encourus.



Les enfants ne doivent pas jouer avec l'appareil. Le nettoyage et l'entretien ne doivent pas être réalisés par des enfants sans surveillance.

Seulement pour les marchés hors UE:



Les personnes qui n'ont pas l'expérience ou les connaissances nécessaires sur le ou les produit(s) ne doivent pas le ou les utiliser. Par ailleurs, les personnes ayant des capacités physiques, sensorielles ou mentales réduites ne doivent pas utiliser le ou les produit(s), sauf si elles sont sous surveillance ou ont suivi une formation approfondie de l'utilisation de l'appareil par l'individu responsable de la sécurité de ces personnes.



De plus, les enfants doivent-être sous surveillance afin de s'assurer qu'ils ne jouent pas avec le produit.

Utilisation abusive:



Ne surchargez pas les actionneurs – cela peut engendrer un risque de blessures corporelles et endommager le système.



Ne pas utiliser les actionneurs pour soulever des personnes. Ne pas s'asseoir ou se tenir debout sur une table en fonctionnement – risque de blessures.



Ne pas utiliser le système dans des environnements autres que l'utilisation intérieure prévue.

Repairs

In order to avoid the risk of malfunction, all DESKLINE® repairs must only be carried out by authorised LINAK service centres or repairers, as special tools must be used and special gaskets must be fitted. Products under warranty must also be returned to authorised LINAK service centres.

Further information on DESKLINE warranty can be found on the LINAK website www.linak.com/warranty.



Warning!

If any of the DESKLINE® products are opened, there will be a risk of subsequent malfunction.



Warning!

The DESKLINE® systems are not resistant to cutting oil.

Manufacturer's declaration

DECLARATION OF INCORPORATION OF PARTLY COMPLETED MACHINERY

LINAK A/S
Smedevænget 8
DK - 6430 Nordborg

Herewith declares that LINAK DESKLINE® products as characterized by the following models and types:

Control Boxes: CBD6Sa000b0A-c09 (Where -a: can be P, C or H, -b: can be 2, 3 or 4 and -c: can be 0 or 7)

Linear Actuators: LA31

Built in actuator(s): DB5, DB6, DB14,

Lifting Columns: DL1A, DL4S, DL2, DL5, DL6, DL7, DL8, DL9, DL10, DL11, DL12, DL14, DL15, DL16, DL17, DL18, DL19, DL20, DL21

Desk Panels: DPA, DPB, DPH, DPF1K, DPF1M, DPF2K, DPF3K, DPF1C, DPF1D, DPF1U, DPF1W, DPF4T, DPG1K, DPG1M, DPG1B, DPG1C, DPT, DP1V01, DP1CS, DP1K, DP1U, DP2K, DP3K, DPN, DPWA

Accessories: BLE2LIN002, BLE2LIN003, DESK SENSOR 1, USB2LIN, DCCconnector

complies with the following parts of the Machinery Directive 2006/42/EC, ANNEX I, *Essential health and safety requirements relating to the design and construction of machinery:*

- 1.1.2 a) Special use*
- 1.1.2 b) Selection of the most appropriate methods*
- 1.1.2 c) Foreseeable misuse*
- 1.1.2 d) Operator constrains due to the use of personal protective equipment*

1.1.3 Materials and products*

- 1.2.1 Safety and reliability of control systems
- 1.2.2 Control devices. Shape, readability, overview*
- 1.2.3 Starting*
- 1.2.4 Stopping*

- 1.5.1 Electricity supply
- 1.5.10 Radiation. EMC. Emission of electromagnetic radiation, X-rays, γ-rays*
- 1.5.11 External radiation*

*need to be further evaluated in the end product

We confirm that prior to market introduction the relevant technical documentation is compiled in accordance with part B of Annex VII and the assembly instruction pursuant to Annex VI.

This documentation or part hereof will be transmitted by post or electronically to a reasoned request by the national authorities.

The products mentioned in this document are to be combined for use in height adjustable furniture.

This partly completed machinery must not be put into service until the final machinery into which it is to be incorporated has been declared in conformity with the provisions of the Machinery Directive 2006/42/EC where appropriate.

Nordborg, 2020-10-28

LINAK A/S
Dragen Macura
Regulatory Compliance Manager
Desklina and Homeline Segments
Authorized to compile the relevant technical documentation

Original Declaration

EC Declaration of Conformity

EC DECLARATION OF CONFORMITY

LINAK A/S
Smedevænget 8
DK - 6430 Nordborg

hereby declares under our sole responsibility that LINAK Actuator System for DESKLINE composed of:

Control Box(s)	CBD6Sa000b0A-c09, (Where -a: can be P, C or H, -b: can be 2, 3 or 4 and -c: can be 0 or 7)
And Linear Actuator(s)	LA31: 31abcH-defff50S, (Where -a: can be 1, 3, 6 or 7; - b can be from 1 to 8, or A or B; - c can be from 0 to 4; - d can be 0 or 1; - e can be 0 or 1; - fff can be max 500)
Built in actuator(s)	DB5, DB6, DB14: DBabbcdefghhhiii, (Where: - a: can be 5, 6 or 14; - b: can be 0, 1, 3 or 9; - c: can be 0, 1, B, L or S; - d: can be 0, 1 or 2; - e: can be 0, A, B or X; - f: can be 0, or A; - g: can be from 0, M, S or E; - hhh: can be from 000 to 675; - iii: can be from 000 to 630);
Lifting Column(s)	Standard columns: DLabcdefghhhiii, (Where: - a: can be 1A, 4S, 5, 6, from 8 to 12, from 14 to 21; - b: can be 0, 2, 3 or 5; - c: can be 0, A, B, D, W or x; - d: can be 0, 1, L, R or X; - e: can be A, B, D or X; - f: can be 0, N, M, P or x; - g: can be 0 or E; - hhh: can be from 600 to 1100; - iii: can be from 000 to 785); DL12: DL12abcdefggghhh (where - a can be A or B; - b can be 0 or E; - c can be 0, L, R or X; - d can be A, B, D or X; - e can be 0 or M; - f can be 0 or E; - ggg can be max 1100; - hhh can be max 785) DL7: DL73a0b00470645 (where - a can be 0 or R; - b can be A, B, C or D) DL2: DL2abCcodefffggg (where - a can be 3, 6 or 7; - b can be from 0 to 3; - c can be A or B; - d can be 0, F or G; - e can be from 0 to 7; - fff can be from 300 to 500; - ggg can be from 445 to 655) BASELIFT: BASE1000A0F100100
Desk Panel(s)	DPA, DPB, DPH, DPF1K, DPF1M, DPF2K, DPF3K, DPF1C, DPF1D, DPF1U, DPF1W, DPF4T, DPG1K, DPG1M, DPG1B, DPG1C, DPT, DP1V01, DP1CS, DP1K, DP1U, DP2K, DP3K, DPN, DPWA
Accessories	BLE2LIN002, BLE2LIN003, DESK SENSOR 1, USB2LIN, DCConnector, CHUSB

Complies with EMC Directive: **2014/30/EU** according to following standards:
EN 61000-6-2:2005/AC:2005
EN 61000-6-3:2007/A1:2011/AC:2012

Complies with Low Voltage Directive **2014/35/EU** according to the standard:
EN 60335-1:2012+AC:2014+A11:2014+A13:2017+A1:2019 +A14:2019 +A2:2019
EN 62233:2008 + AC:2008

Complies with RoHS2 Directive **2011/65/EU** and RoHS3 Directive **2015/863** (amending Annex II to Directive 2011/65/EU) according to the standard:
EN 50581:2012

And the applicable Desk Panels and Accessories complies with the Radio Equipment Directive **2014/53/EU** according to the standards listed in the RED DoC for the individual radio products.

Additional information:

The system does also comply with the standard: EN 61000-6-2:2019 and
EN 13849-1:2015 SRP/CS Cat. B, PL = b and SRESW PL = b
Note 1: Exempted CBD6S with SW03003007 printed on the label.

Nordborg, 2021-11-24

LINAK A/S
Dragan Macura
Regulatory Compliance Manager
Deskline and Homeline Segments
Authorized to compile the relevant technical documentation

Original Declaration

Misc. on the DESKLINE® system

Warranty

This DESKLINE product is subject to warranty pursuant to the terms of LINAK DESKLINE Warranty Paper, available on the LINAK website www.linak.com/warranty.

Maintenance

Clean dust and dirt on the outside of the system at appropriate intervals and inspect for damage and breaks. Inspect the connections, cables, and plugs and check for correct functioning as well as fixing points.



The cleaners and disinfectants must not be highly alkaline or acidic (pH value must be 6 to 8).

Valid for:

This User manual is valid for the following product:

Desk Sensor™ 2



WiFi2LIN012



DESK Wi-Fi App



System description

The DESKLINE® Desk Tracking System is developed for offices and allows DESKLINE® applications to connect to a Wi-Fi network and track occupancy data from desks via a sensor. The solution consists of a Desk Sensor™ 2, a WiFi2LIN012 box, an Application Programming Interface, and the DESK Wi-Fi App.

The Desk Sensor™ 2 (DS2) is an occupancy sensor which detects if an employee is using the desk where the DS2 is mounted. The DS2 is a small, compact plug-in adapter based on an accelerometer technology, and it detects any user interactions with the desk, such as tapping the computer keyboard, moving the mouse, or placing a coffee cup on the desk. Even the smallest movements will cause a signal to be sent to the WiFi2LIN012 box. The DS2 is compatible with all DESKLINE® systems based on Control Box CBD6S, and with DESKLINE® DL IC (Integrated Controller) systems, and it works with both 2-part and 3-part columns.

The DESKLINE® WiFi2LIN012 box enables connection of one DESKLINE application to a Wi-Fi network. It monitors occupancy data from the DS2 plugged into the WiFi2LIN012 box, the Control Box CBD6S or the RJ45 T-splitter connected to the DL IC Master column. The WiFi2LIN012 box sends sensor data to the LINAK cloud. The WiFi2LIN012 box is easy to connect. Simply connect the box to the application using a DC cable for power and a LINbus cable for communication, and apply power. The WiFi2LIN012 box is compatible with the DS2, Control Box CBD6S, DL IC systems (with the use of an RJ45 T-splitter), and all DESKLINE® controls.

The Application Programming Interface (API) is used for reading out sensor data from the LINAK cloud.

The data shows the occupancy status of the desk, and the system integrator can implement the data in their desk tracking/booking system. All desk data is anonymously stored in the cloud.

The DESK Wi-Fi App is developed for setting up WiFi2LIN012 boxes to a Wi-Fi network. The app is a tool for service technicians to set up a desk tracking/booking system in an office. Use the DESK Wi-Fi App to set up the box to the office network. An onboarding flow will help the service technicians get started and connect office desks to Wi-Fi network via the WiFi2LIN012 box. Via the network, the box connects to the LINAK® cloud, where an anonymous registration of the desk is made. The app supports the WiFi2LIN012 box connected to the Control Box CBD6S or to the DL IC Master column, and the DS2.

Installation

WiFi2LIN012

Preparing the connection



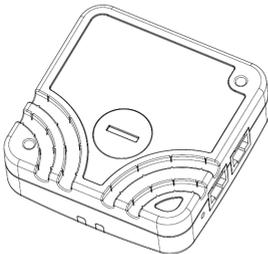
Ensure to use cables of sufficient length.

1. Connect a DC cable to one of the DC ports on the WiFi2LIN012 box.
2. Connect a LINbus cable to one of the RJ45 ports on the WiFi2LIN012 box.



Ensure that the LINbus cable is fastened thoroughly and **cannot** touch the DS2 while the desk is running.

3. Ensure to make cable reliefs by placing the cables in the grooves in the bottom of the WiFi2LIN012 box.



Grooves for cable reliefs

The additional LINbus port available on the WiFi2LIN012 box is for connection of accessories.

Mounting

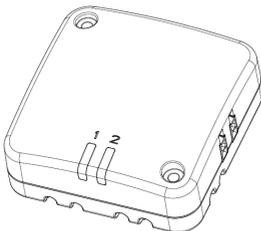
1. Mount the WiFi2LIN012 box in a suitable place using two screws with the following specifications:
Thread: Max. 3.8 mm
Head: Max. 8.5 mm
Length: Min. 30 mm

A suitable place would be at the centre of the tabletop if the DS2 is plugged into the WiFi2LIN012 box.



Choose an appropriate screw length to ensure that the screws do not penetrate the tabletop.

2. Mount the WiFi2LIN012 box so the LED light colours and states can easily be noticed.



LEDs and mounting holes

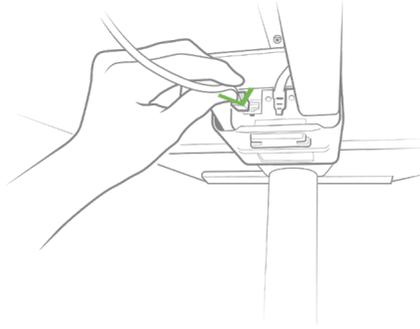
Finishing the connection

System with Control Box CBD6S

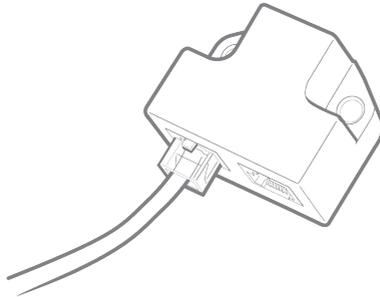
1. Connect the DC cable to the CBD6S.
2. Connect the LINbus cable to the CBD6S.

DL IC system

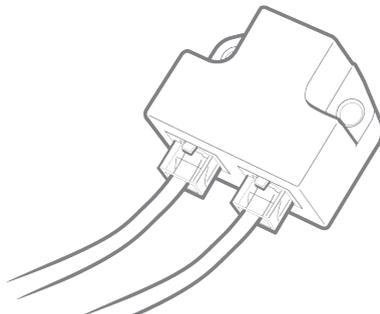
1. Mount the RJ45 T-splitter on the tabletop using two M4.5 x 25 screws.
2. Connect the DC cable to the master column.
3. Connect a LINbus cable to the master column.



4. Connect the LINbus cable to the RJ45 T-splitter.



5. Connect the LINbus cable from the WiFi2LIN012 box to the RJ45 T-splitter. The remaining port on the RJ45 T-splitter is for connection of the desk panel.



DS2



Ensure that the CBD6S, WiFi2LIN012 and RJ45 T-splitter are fixed securely to the tabletop for optimal DS2 performance.



Ensure that the unit to which the DS2 is connected, is mounted as close to the centre of the tabletop as possible for optimal DS2 performance.

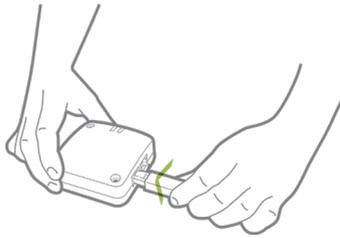


Ensure that the WiFi2LIN012 box is fixed securely to the tabletop for optimal DS2 performance.

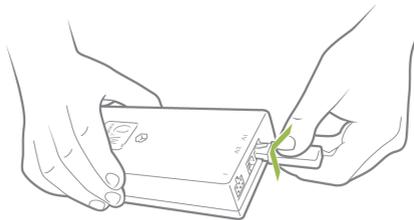


If the DS2 is removed from the desk system or is no longer mounted correctly, the LED2 on the WiFi2LIN012 box will show a constant yellow light.

1. Plug the DS2 into the remaining RJ45 port on the WiFi2LIN012 box, or one of the RJ45 ports on the CBD6S or a RJ45 T-splitter connected to the DL IC Master column.



Plugging the DS2 into the WiFi2LIN012 box



Plugging the DS2 into the CBD6S



DS2 plugged into the RJ45 T-splitter

The first 24 hours after power is applied to the DS2, it calibrates to find the background vibration level. This is done to optimise the detection of vibrations actually coming from use of the desk.

During these 24 hours, the Desk Tracking System works based on a pre-programmed background level.

Configuration

Use the DESK Wi-Fi App for configuring the WiFi2LIN012 box.

Configuring

1. Power-up the desk application and the WiFi2LIN012 box. The WiFi2LIN012 box enters pairing mode.
2. Connect the WiFi2LIN012 box to the network via the Bluetooth® connection and the DESK Wi-Fi App.

During configuration and use, the WiFi2LIN012 box indicates various situations/events, for example connection state and errors, via the two LEDs on the box. LED1 is for the internet and the LINAK IoT cloud, while LED2 is for the DS2 and the configuration.

After power-up, LED2 is dedicated to Bluetooth® activity. Then it switches to red, yellow or green to communicate the DS2 state. When both LEDs have been constant green for three minutes, they both turn off to be available for status indication as described in the tables below.

LED overview

LED1 - internet and LINAK IoT cloud

Colour	Light state	Box state	Description
Red	Constant	No internet	State during power-up.
Yellow	Blinking at 1 Hz	Connecting to Wi-Fi	State while connecting to Wi-Fi.
Yellow	Constant	Connected to Wi-Fi	State when an IP address is obtained, the internet is working and Wi-Fi is configured.
Green	Blinking at 1 Hz	Connecting to LINAK IoT cloud	State while establishing connection to LINAK IoT cloud.
Green	Constant	Connected to LINAK IoT cloud	State when connected to LINAK IoT cloud.
White	Blinking at 1 Hz	Updating firmware	State while WiFi2LIN012 is updating firmware.
White	Constant for 2 seconds	Factory reset	State when WiFi2LIN012 is factory reset.

LED2 - Desk Sensor™ 2 and configuration

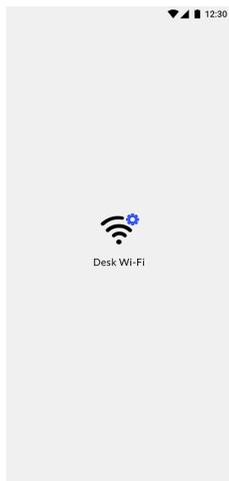
Colour	Light state	Box state	Description
Red	Constant	DS2 communication error	State when error detected.
Yellow	Constant	DS2 not found	State during power-up. State when DS2 is not found.
Green	Blinking at 1 Hz	DS2 found	State when DS2 is found but not configured
Green	Constant	DS2 configured	State when DS2 is found and configured

Setting up the Desk Tracking System via the DESK Wi-Fi App

Login code

A login code is required to use the app to set up the Desk Tracking System. The code will be provided to the user/service technician by the tracking/booking system integrator.

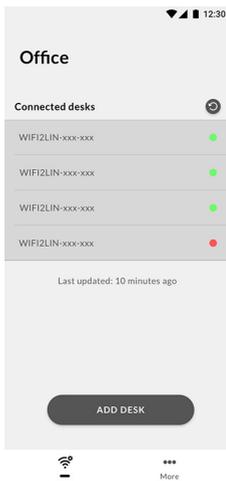
How does the app look?



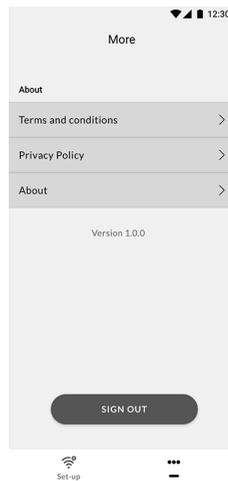
Splash screen



Benefits



Main screen



More

Getting started

When you open the app, the display shows what the app can be used for.

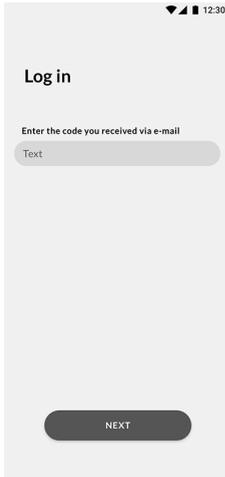


Press "Next" to enter the onboarding flow.

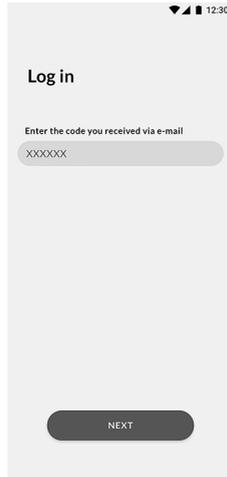
Onboarding flow

Log in to start setting up the office desks.

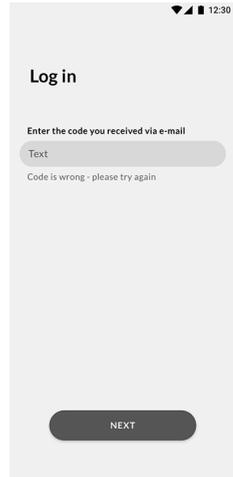
1. Enter the token received from the tracking/booking system integrator.
2. The entered code is displayed.
3. If a wrong code is entered, an error message will be displayed below the input field.
4. When the correct code has been entered, press "NEXT" to connect to the Desk Tracking System.



Enter login code

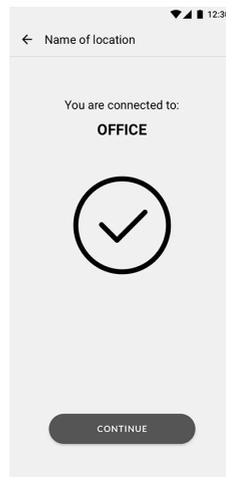


Correct code entered



Wrong code entered

The app now starts connecting to the Desk Tracking System and reads the installation name. When the connection is established, the installation name is displayed ("OFFICE" in this example).

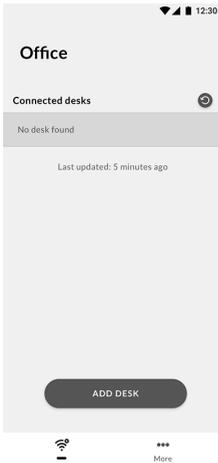


Press "CONTINUE" to finish the onboarding and enter the setup flow.

Setup flow

The first time the app is used in an installation, the screen displays the installation name and “No desk found” in the list of connected desks.

1. Press “ADD DESK” to connect to a Wi-Fi network.
2. Select the desired network (a check mark will show to the right of the selected network) and press “NEXT”.
3. Enter the password for the selected network and press ‘Enter’ on the displayed keyboard.



First-time use in an installation



Select Wi-Fi network

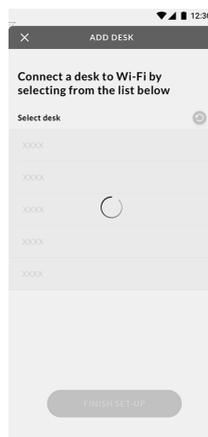


Wi-Fi network selected



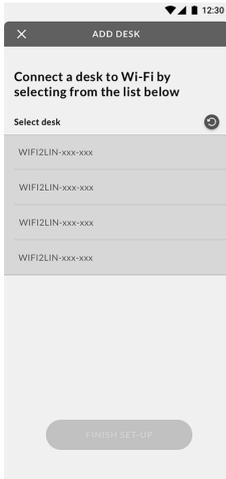
Password entered

A list of WiFi2LIN012 boxes available for connection is displayed. The boxes are listed in accordance with their Bluetooth® signal strength. If the desired WiFi2LIN012 box is not on the list, press the refresh button above the list.



4. Select the desired WiFi2LIN012 box. A check mark will show to the right of the selected box when it is connected to the Wi-Fi network.
In case the wrong Wi-Fi network password is entered, the box cannot be connected to the Wi-Fi network, and a note will pop up.
5. Select the next WiFi2LIN012 box.

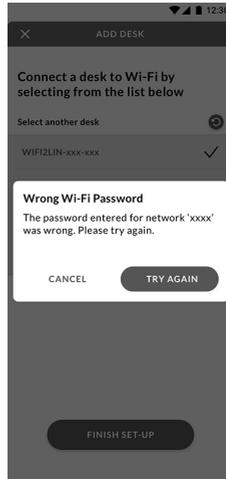
6. When all the desired WiFi2LIN012 boxes have been selected, press "FINISH SETUP" ..



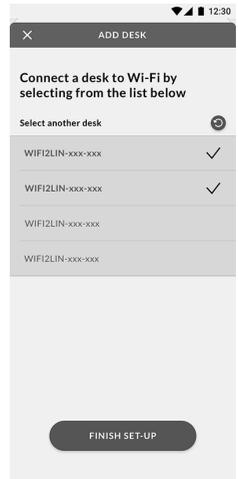
List of boxes



Box connecting



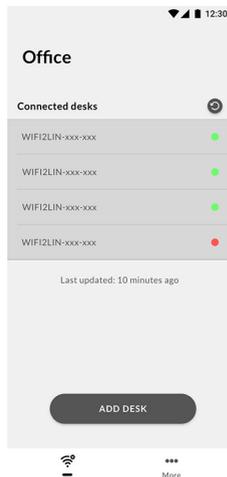
Wrong password



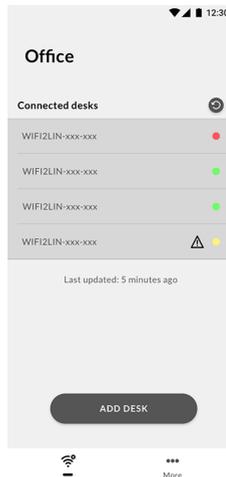
Finish setup

Main screen

When a user logs into the app, the main screen shows a list of the WiFi2LIN012 boxes connected to the Wi-Fi network of the installation. A coloured dot to the right indicates the status of the connection, and a text below the list states the time since the list was last updated.



Main screen



Main screen with error

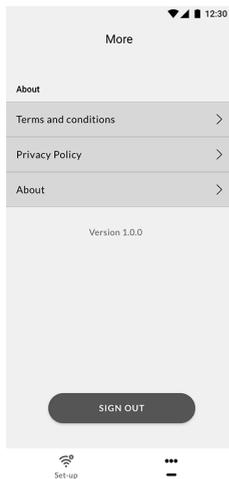
Status indication:

- Green Online
- Yellow Online, but no data is being shared
- Red Offline

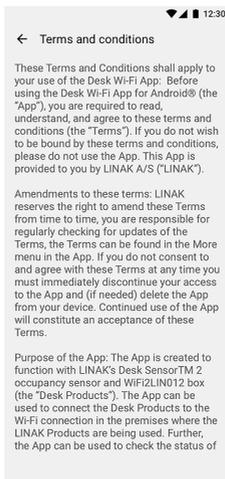
A warning sign is displayed together with the yellow dot to indicate that action must be taken.

The “More” menu

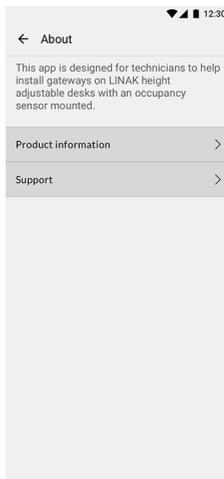
The “More” menu comprises terms and conditions for use of the app, the privacy policy including information about how we handle data, and information about the app.



More



Terms and conditions



About

The “About” menu

The “About” section describes the purpose of the app, and it contains links to product information and to support on the LINAK website.

Application Programming Interface (API)

The API is a software intermediary that allows two applications, such as computers and apps, to communicate with each other. It consists of a set of defined rules for this communication.

API key

To access the LINAK API, an API key is required. The API key is delivered from LINAK. This key must be entered with each request for information from the API.

Each tracking/booking system integrator receives one API key which must be used for setting up all their customers' installations.

Together with the API key, the integrator receives a set of documentation, which describes the possible items to request information about.

Creating an installation

Usually, only one installation is set up per end customer. In case of customers with big offices or customers with offices in different locations, multiple systems can be set up.

The integrator must send a request including the name of the installation to the API to set up the specific installation.

If the request has been accepted, an answer is sent from the API. This answer comprises a code, which indicates that the installation was successfully created; the installation name; and the ID assigned to this specific installation.

Requesting a token for the installation

The integrator must request a token from the API. This token must be forwarded to the service technician who is to setup the desk tracking/booking system.

The answer comprises a token (a GUID), which must be used to log into the app; and an empty list of desks assigned to the installation. When the desks are added to the installation via the setup flow in the DESK Wi-Fi app, the WiFi2LIN012 boxes are added to the list.

Requesting occupancy data from a desk

The integrator can request the status of any desk in the installation. The request must include the specific WiFi2LIN012 ID.

Subscribing to desk status

It is possible to subscribe to changes in the status of the desks in the specific installation. The LINAK API will then send information to a defined URL each time there is a change in the status of a desk in that specific installation, for example when the DS2 detects vibrations, or if the connection to the WiFi2LIN012 box or the DS2 is lost.

The information comprises the installation ID as well as a list of information for each desk assigned to the installation:

- Desk ID (WiFi2LIN012 box)
- Occupancy status (Occupied, Vacant, or Unknown)
- Connection status (No error, No connection, or No sensor)
- Time stamp for the change occurred

The connection status must be 'No error' for the occupancy status to be valid.

The occupancy status changes from 'Occupied' to 'Vacant' when the DS2 has detected no vibrations for 5 minutes.

Calibration

In case the Desk Tracking System is installed during a period with no or only little background vibration, it is possible (via the API) to initiate a calibration during a period with normal activity in the installation environment.

Troubleshooting

No data is received from the DS2.

The main screen shows a yellow dot and a warning sign at one of the WiFi2LIN012 boxes.

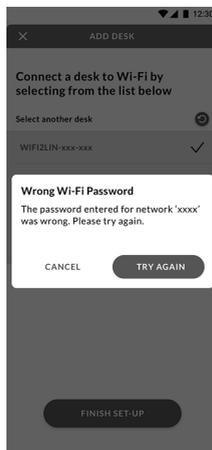


Try the following:

1. Check the DS2 connection.
 - 1.1. Remove the DS2 from the WiFi2LIN012 box and plug it back in.
 - 1.2. Check if the colour has changed on the main screen. Refresh the screen, if necessary.
2. Make sure the connected sensor is a DS2 - the Desk Tracking System will not work if a DS1 (Desk Sensor™ 1) is connected.

Error messages

In case a wrong password for the Wi-Fi network is entered, an error message will be displayed. The correct password must be entered before the WiFi2LIN012 boxes can be connected to the Wi-Fi network available at the location.



Android phones need access to location and GPS in order to search for BLE devices. Ensure that both are turned on and access allowed.

If Bluetooth is not enabled on the Android device, connection between the WiFi2LIN012 box and the app cannot be established, and the setup of the WiFi2LIN012 box cannot be performed.

Accessories

Ordering accessories

Order from your nearest LINAK® contact, distributor or subsidiary.



Warning!

By unauthorised opening of the system there is a risk that it may malfunction at a later date.

Spare parts

Please contact your nearest LINAK contact for information on spare parts.

Disposal of LINAK products

As our customers often ask us how our products can be disposed of or scrapped we have prepared this guidance that enables a classification to different waste fractions for recycling or combustion.

Guidance

We recommend that our products be disassembled as much as possible and divided into different waste groups for recycling or combustion.

For example, waste can be sorted into metals, plastics, cable scrap, combustible material and recoverable resources.

Some of these main groups can be further divided into subgroups; e.g. metal can be divided into steel/aluminium/copper and plastic can be divided into ABS/PA/PE/PP.

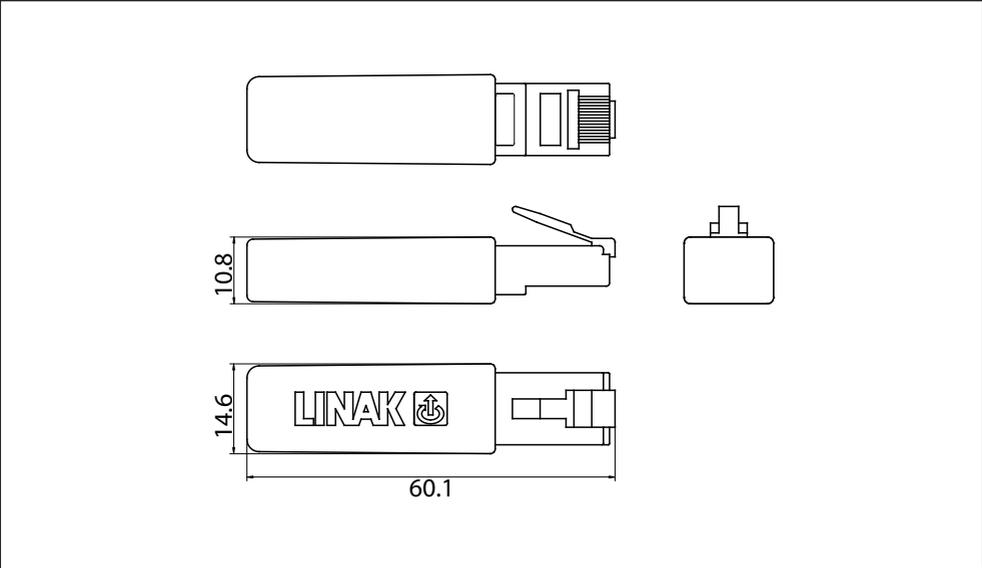
As an example, the table below breaks down the different components in LINAK products to various recycling groups:

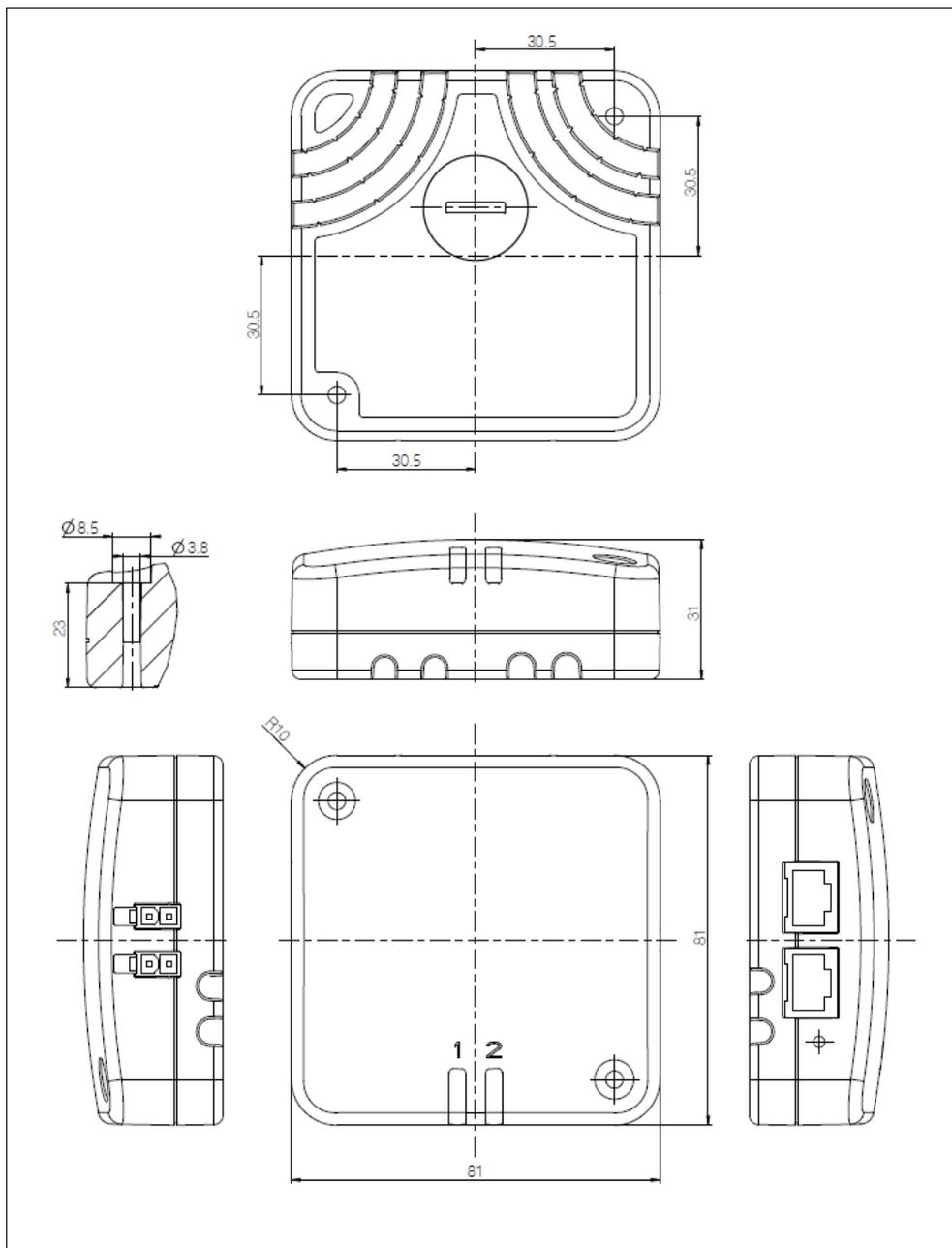
Main groups of disposal

Product main groups	Metal scrap	Cable scrap	Electronics scrap	Plastic recycling or combustion	Comments
Desk Sensor™ 2			X	X	
WiFi2LIN012 box			X	X	

DRAWING APPENDIX

Desk Sensor™ 2





LINAK APPLICATION POLICY

The purpose of the application policy is to define areas of responsibilities in relation to applying a LINAK product defined as hardware, software, technical advice, etc. related to an existing or new customer application.

LINAK products as defined above are applicable for a wide range of applications within the Medical, Furniture, Desk and Industry areas. Yet, LINAK cannot know all the conditions under which LINAK products will be installed, used, and operated, as each individual application is unique.

The suitability and functionality of the LINAK product and its performance under varying conditions (application, vibration, load, humidity, temperature, frequency, etc.) can only be verified by testing, and shall ultimately be the responsibility of the LINAK customer using any LINAK product.

LINAK shall be responsible solely that the LINAK products comply with the specifications set out by LINAK and it shall be the responsibility of the LINAK customer to ensure that the specific LINAK product can be used for the application in question.

FACTORIES

China

LINAK (Shenzhen) Actuator Systems, Ltd.
Phone: +86 755 8610 6656
Phone: +86 755 8610 6990
www.linak.cn

Denmark - Headquarters

LINAK A/S
Phone: +45 73 15 15 15
Fax: +45 74 45 80 48
Fax (Sales): +45 73 15 16 13
www.linak.com

Slovakia

LINAK Slovakia s.r.o.
Phone: +421 51 7563 444
www.linak.sk

Thailand

LINAK APAC Ltd.
Phone: +66 33 265 400
www.linak.com

USA

LINAK U.S. Inc.
Americas Headquarters
Phone: +1 502 253 5595
Fax: +1 502 253 5596
www.linak-us.com
www.linak-latinamerica.com

SUBSIDIARIES

Australia

LINAK Australia Pty. Ltd
Phone: +61 3 8796 9777
Fax: +61 3 8796 9778
www.linak.com.au

Austria

LINAK Repräsentanz - Österreich (Wien)
Phone: +43 (1) 890 7446
Fax: +43 (1) 890 744615
www.linak.at - www.linak.hu

Belgium

LINAK Actuator-Systems NV/SA
(Belgium & Luxembourg)
Phone: +32 (0)9 230 01 09
www.linak.be - www.fr.linak.be

Brazil

LINAK Do Brasil Comércio De Atuadores Ltda.
Phone: +55 (11) 2832 7070
Fax: +55 (11) 2832 7060
www.linak.com.br

Canada

LINAK Canada Inc.
Phone: +1 502 253 5595
Fax: +1 416 255 7720
www.linak-us.com

Czech Republic

LINAK C&S s.r.o.
Phone: +42 058 174 1814
Fax: +42 058 170 2452
www.linak.cz - www.linak.sk

Denmark - International

LINAK International
Phone: +45 73 15 15 15
www.linak.com

Denmark - Sales

LINAK DANMARK A/S
Phone: +45 86 80 36 11
Fax: +45 86 82 90 51
www.linak.dk

Finland

LINAK OY
Phone: +358 10 841 8700
www.linak.fi

France

LINAK FRANCE E.U.R.L.
Phone: +33 (0) 2 41 36 34 34
Fax: +33 (0) 2 41 36 35 00
www.linak.fr

Germany

LINAK GmbH
Phone: +49 6043 9655 0
Fax: +49 6043 9655 60
www.linak.de

India

LINAK A/S India Liaison Office
Phone: +91 120 4531797
Fax: +91 120 4786428
www.linak.in

Ireland

LINAK UK Limited (Ireland)
Phone: +44 (0)121 544 2211
Fax: +44 (0)121 544 2552
+44 (0)796 855 1606 (UK Mobile)
+35 387 634 6554
(Republic of Ireland Mobile)
www.linak.co.uk

Italy

LINAK ITALIA S.r.l.
Phone: +39 02 48 46 33 66
Fax: +39 02 48 46 82 52
www.linak.it

Japan

LINAK K.K.
Phone: 81-45-533-0802
Fax: 81-45-533-0803
www.linak.jp

Malaysia

LINAK Actuators Sdn. Bhd.
Phone: +60 4 210 6500
Fax: +60 4 226 8901
www.linak.my

Netherlands

LINAK Actuator-Systems B.V.
Phone: +31 76 5 42 44 40
www.linak.nl

New Zealand

LINAK New Zealand Ltd
Phone: +64 9580 2071
Fax: +64 9580 2072
www.linak.com.au

Norway

LINAK Norge AS
Phone: +47 32 82 90 90
www.linak.no

Poland

LINAK Polska
LINAK Danmark A/S (Spółka Akcyjna)
Phone: +48 22 295 09 70 /
+48 22 295 09 71
www.linak.pl

Republic of Korea

LINAK Korea Ltd.
Phone: +82 2 6231 1515
Fax: +82 2 6231 1516
www.linak.kr

Spain

LINAK Actuadores, S.L.u
Phone: +34 93 588 27 77
Fax: +34 93 588 27 85
www.linak.es

Sweden

LINAK Scandinavia AB
Phone: +46 8 732 20 00
Fax: +46 8 732 20 50
www.linak.se

Switzerland

LINAK AG
Phone: +41 43 388 31 88
Fax: +41 43 388 31 87
www.linak.ch - www.fr.linak.ch
www.it.linak.ch

Taiwan

LINAK (Shenzhen) Actuator systems Ltd.
Taiwan Representative office
Phone: +886 2 272 90068
Fax: +886 2 272 90096
www.linak.tw

Turkey

LINAK İth. İhr. San. ve Tic. A.Ş.
Phone: +90 312 4726338
Fax: +90 312 4726635
www.linak.com.tr

United Kingdom

LINAK UK Limited
Phone: +44 (0)121 544 2211
Fax: +44 (0)121 544 2552
www.linak.co.uk

DISTRIBUTORS

Argentina

NOVOTEC ARGENTINA SRL
Phone: 011-4303-8989/8900
Fax: 011-4032-0184
www.novotecargentina.com

Colombia

MEM Ltda
Phone: +[57] (1) 334-7666
Fax: +[57] (1) 282-1684
www.mem.net.co

India

Mechatronics Control Equipments
India Pvt Ltd
Phone: +91-44-28558484, 85
www.mechatronicscontrol.com

Indonesia

PT. HIMALAYA EVEREST JAYA
Phone: +6 221 544 8956,
+6 221 544 8965
Fax: +6 221 619 1925
Fax (Sales): +6 221 619 4658
www.hej.co.id

Iraq

Sran Medical Tech
Phone: +964 770 470 2202

Israel

NetivTech LTD
Phone: +972 55-2266-535
Fax: +972 2-9900-560
www.netivtech.com

Kingdom of Bahrain

Mechatronics Industrial Equipments
Phone: +973 17280059
Fax: +973 17910045
www.mechatronicsbh.com

Qatar

Mechatronics Industrial Equipments
Phone: +974 44581155
Fax: +974 44689135
www.mechatronicsqatar.com

Singapore

Servo Dynamics Pte Ltd
Phone: +65 6844 0288
Fax (Sales): +65 6844 0070

South Africa

Industrial Specialised Applications CC
Phone: +27 011 466 0346
www.isaza.co.za

United Arab Emirates

Mechatronics Industrial Equipments LLC
Phone: +971 4 267 4311
Fax: +971 4 267 4312
www.mechatronics.ae

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