

# Eliwell AIR

User manual

07/2024



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## Important information

Read these instructions carefully and visually inspect the equipment to familiarize yourself with the controller before attempting to install it and/or put it into operation, or before servicing it. The following warning messages may appear anywhere in this documentation or on the equipment to warn of potential dangers or to call attention to information that can clarify or simplify a procedure.



The addition of this symbol to a "Danger" or "Warning" safety label indicates that an electrical hazard exists which will result in personal injury if the instructions are not followed.



This is the safety warning symbol. It is used to warn the user of the potential dangers of personal injury. Observe all the safety warnings that follow this symbol to avoid the risk of serious injury or death.

### **DANGER**

**DANGER** indicates a dangerous situation which, if not avoided, **will result in death** or serious injury.

### **WARNING**

**WARNING** indicates a dangerous situation which, if not avoided, **could result in death** or serious injury.

### **CAUTION**

**CAUTION** indicates a potentially dangerous situation which, if not avoided, **could result in minor or moderate injury**.

### **NOTICE**

**NOTICE** used in reference to procedures not associated with physical injuries.

## Please Note

Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel. No responsibility is assumed by Schneider Electric and Eliwell for any consequences arising out of the use of this material. An authorized person is someone in possession of the skills and knowledge applicable to the structure, to the operation of the electrical equipment and to its installation, and who has received safety training in order to recognize and avoid the risks involved.

## Personnel qualification

Only personnel with suitable training and an in-depth knowledge and understanding of the contents of this manual and any other documentation relevant to the product are authorized to work on and with this product. Qualified personnel must be capable of identifying any dangers which may arise from the parameterization or changing of parameter values, and from the use of mechanical, electric and electronic equipment in general. Plus, they must be familiar with the personal safety laws, provisions and regulations which must be observed during system planning and implementation.

## Eliwell AIR APP related information

IT IS INTENDED THAT THE MOBILE APPLICATION FULL COMPATIBILITY WITH ANY SMART DEVICE AVAILABLE ON THE MARKET AT ANY TIME CANNOT BE GRANTED BY SCHNEIDER ELECTRIC SO IT IS UNDER THE USER'S RESPONSIBILITY TO VERIFY SUCH COMPATIBILITY BEFORE USING THE MOBILE APPLICATION. MOBILE APPLICATION IS NOT A TOOL ABLE TO SUBSTITUTE HANDS-ON TRAINING, SAFETY MEASURES OR INSTRUCTIONS FOR COMMISSIONING, USE OR MAINTENANCE OF THE COOLER AND/OR THE ELECTRONIC CONTROLLER. IT IS INTENDED TO BE USED AS SUPPLEMENTAL REFERENCE BY A COMPETENT SERVICE TECHNICIAN WHO IS FULLY TRAINED IN THE CARE, OPERATION AND MAINTENANCE OF THE INSTALLED ELECTRONIC CONTROL.

ALTHOUGH REASONABLE CARE HAS BEEN TAKEN TO PROVIDE ACCURATE AND AUTHORITATIVE INFORMATION, SCHNEIDER ELECTRIC ASSUMES NO RESPONSIBILITY FOR ANY CONSEQUENCES ARISING OUT OF THE USE OF THIS MOBILE APPLICATION. SCHNEIDER ELECTRIC CAUTIONS YOU THAT MAINTENANCE AND DIAGNOSTIC OPERATIONS SHALL BE CARRIED OUT ONLY BY QUALIFIED MAINTENANCE PERSONNEL. FAILURE TO DO SO CAN RESULT IN SERIOUS PERSONAL INJURY, PROPERTY DAMAGE, OR DEATH.

FOR A PROPER USE OF THE MOBILE APPLICATION, USER MUST REFER TO AND STRICTLY FOLLOW ALL SAFETY INSTRUCTIONS DEFINED AND ANY REGULATION APPLICABLE TO THE COOLER AND THE ELECTRONIC CONTROLLER IN CONNECTION WITH WHICH THE MOBILE APPLICATION IS USED.

Schneider Electric reserves the right but is not obligated to, at any time, update or upgrade the current version of the Mobile Application and its Documentation so as to enhance current functionalities, add or remove functionalities of the Mobile Application and/or to create temporary or permanent conditions or limitations to the use of the Mobile Application.

Any such update or upgrade to the Mobile Application and its Documentation will be published online by Schneider Electric. Schneider Electric recommends that every User, including returning Users, carefully review the following website [www.televisair.eliwell.com/terms](http://www.televisair.eliwell.com/terms) or the Mobile Application stores' web-page(s) that make the Mobile Application available for download. It is the User's responsibility to visit such website or pages prior to each use of the Mobile Application. The User's continued use of the Mobile Application after any such update or upgrade to the Mobile Application is published by Schneider Electric, shall be deemed as the User's acceptance of such update or upgrade and the User's agreement to use the updated or upgraded Mobile Application in accordance with these Terms of Use (or any then-current, revised Terms of Use).

If the User does not consent to such updates or upgrades, the User shall have the immediate obligation to cease any use of the Mobile Application and to delete or expunge the Mobile Application from all computers, hard disks, servers, tablets, smart phones or other mobile devices onto which the User downloaded the Mobile Application, with the effect that the legal agreement formed between the User and Schneider Electric by the User's acceptance of these Terms of Use shall be deemed immediately and automatically terminated.

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# About the Book

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## Document Scope

This document contains important information about the connection to Eliwell Air APP, AIR EDGE and Eliwell Air CLOUD features.

Read these instructions carefully before you install the APP or connect to the CLOUD platform described herein.

## Validity note

The characteristics of the products described in this document are intended to match the characteristics that are available on [www.eliwell.com](http://www.eliwell.com).

As part of our corporate strategy for constant improvement, we may revise the content over time to enhance clarity and accuracy.

If you see a difference between the characteristics in this document and the characteristics on [www.eliwell.com](http://www.eliwell.com), consider [www.eliwell.com](http://www.eliwell.com) to contain the latest information.

## Available Languages of this Document

This document is available in the following languages:

- English (E\_AIR-00EN)

## Related documents

Publication title	Reference document code
Instruction Sheet	9IS64898 (6L)

You can download these technical publications, the present document and other technical information from our website: [www.eliwell.com](http://www.eliwell.com)

## Cybersecurity

For information on cybersecurity go to [Recommended Cybersecurity Best Practices](#) (English document).

## Information on Non-Inclusive or Insensitive Terminology

As part of a group of responsible, inclusive companies, we are updating our communications and products that contain non-inclusive or insensitive terminology. Until we complete this process, however, our content may still contain standardized industry terms that may be deemed inappropriate by our customers.

## Product related information

### **DANGER**

#### **HAZARD OF ELECTRIC SHOCK, EXPLOSION, FIRE OR ARC FLASH**

- Disconnect all power from all equipment including connected devices prior to removing any covers or doors, or installing or removing any accessories, hardware, cables, or wires except under the specific conditions specified in this hardware guide.
- Always use a properly rated voltage sensing device to confirm the power is off where and when indicated.
- Replace and secure all covers, accessories, hardware, cables, and wires and confirm that a proper ground connection exists before applying power to the unit.
- Use only the specified voltage when operating this equipment and any associated products.

**Failure to follow these instructions will result in death or serious injury.**

### **DANGER**

#### **HAZARD OF EXPLOSION**

- Use this device exclusively with compatible Eliwell instruments.
- Install the EW AIR Edge inside the refrigeration device, in an inaccessible position.

**Failure to follow these instructions will result in death or serious injury.**

### **WARNING**

#### **UNINTENDED EQUIPMENT OPERATION**

- Do not use this equipment for safety-critical functions.
- Do not disassemble, repair, or modify this equipment.

**Failure to follow these instructions can result in death, serious injury, or equipment damage.**

### **NOTICE**

#### **INOPERABLE DEVICE**

- Disconnect all the equipment before installing/dismantling cables or wires.
- Position and adequately fix the device to prevent cable disconnection.
- The TTL cable must be routed separately from the power cables.
- Verify the length of the TTL cable, referring to the datasheet of the compatible Eliwell AIR device.

**Failure to follow these instructions can result in equipment damage.**

### **NOTICE**

#### **UNINTENDED EQUIPMENT OPERATION DUE TO ELECTROSTATIC DISCHARGE OR DURING INSTALLATION**

- Keep the device in the protective packaging until ready for installation.
- When handling sensitive equipment, use an earthed protective device against electrostatic discharge.
- Before handling the device, always discharge the static electricity from the body by touching an earthed surface or type-approved antistatic mat.

**Failure to follow these instructions can result in equipment damage.**



## Flammable refrigerant gases

This equipment is designed to operate in non-hazardous areas and where applications which generate - or could potentially generate - hazardous atmospheres have been isolated. Install this equipment only in areas and with applications known to be constantly free from hazardous atmospheres.



### HAZARD OF EXPLOSION

- Install and use this equipment in non-hazardous locations only.
- Do not install or use this equipment in applications which could generate hazardous atmospheres, such as those using flammable refrigerants.

**Failure to follow these instructions will result in death or serious injury.**

For information regarding the use of control equipment in applications capable of generating hazardous materials, please contact the regulatory office or the local, regional or national certification authority.

## Before starting

Do not use this product on machines which do not have effective workstation protection. A lack of effective workstation protection on a machine may result in serious injury to the machine operator.



### EQUIPMENT WITHOUT PROTECTION

Do not use this software or the relative automation equipment on a device lacking protection on the workstation. **Failure to follow these instructions can result in death, serious injury, or equipment damage.**

This automation equipment and the relative software are used to control various industrial and commercial processes. Only the user, the machine manufacturer or the system integrator can be up-to-date in terms of all the conditions and factors present when preparing, starting up and servicing the machine and therefore only they are able to determine which automation equipment and corresponding safety devices and interlocks can be used correctly.


When the automation and control equipment and the relative software are selected for a particular application, the applicable local and national standards and regulations must also be taken into consideration. Furthermore, the manual for accident prevention of the National Safety Council (recognized nationally in the United States of America) provides very useful information.

Before putting the equipment into service, make sure that all the safety devices and appropriate mechanical/electrical interlocks relating to the protection of the workstation have been installed. All the interlocks and safety devices relating to workstation protection must be coordinated with the corresponding software programming and automation instruments.

## Start-up and testing

Before using the electric control and automation equipment for normal operation after installation, the system should be subjected to a start-up test by qualified personnel to make sure the equipment is functioning correctly.

It is important to carry out the preparations for this check and that sufficient time is provided in order to completely and satisfactorily perform the test.

 <b>WARNING</b>
<p><b>DANGER WHEN STARTING-UP THE EQUIPMENT</b></p> <ul style="list-style-type: none"> <li>• Verify that all installation and preparation procedures have been completed.</li> <li>• Before performing the operating tests, remove all the locks or other temporary retaining devices used when shipping the device components.</li> <li>• Remove any tools, measuring instruments and debris from the equipment.</li> </ul> <p><b>Failure to follow these instructions can result in death, serious injury, or equipment damage.</b></p>

Perform all the start-up tests recommended in the equipment documentation. Conserve all equipment documentation for future consultation.

**The custom software must be tested in a simulated environment as well as in the real environment.**

Check that the completed system is free of short circuits and that the temporary earth system is not installed in compliance with local standards (for example the National Electrical Code in the US). If it is necessary to perform high potential voltage tests, comply with the recommendations provided in the equipment documentation in order to avoid damaging the device.

Before powering the equipment:

- Close the door in the equipment casing.
- Remove all the temporary earth systems from the incoming power supply lines.
- Perform all the start-up tests recommended by the manufacturer.

## Terminology Derived from Standards

The technical terms, terminology, symbols and the corresponding descriptions in this manual, or that appear in or on the products themselves, are generally derived from the terms or definitions of international standards. In the area of functional safety systems, drives and general automation, this may include, but is not limited to, terms such as safety, safety function, safe state, fault, fault reset, malfunction, failure, error, error message, dangerous, etc.

Among others, these standards include:

Standard	Description
IEC 61131-2:2007	Programmable controllers, part 2: Equipment requirements and tests.
ISO 13849-1:2015	Safety of machinery: Safety related parts of control systems. General principles for design.
EN 61496-1:2013	Safety of machinery: Electro-sensitive protective equipment. Part 1: General requirements and tests.
ISO 12100:2010	Safety of machinery - General principles for design - Risk assessment and risk reduction.
EN 60204-1:2006	Safety of machinery - Electrical equipment of machines - Part 1: General requirements.
ISO 14119:2013	Safety of machinery - Interlocking devices associated with guards - Principles for design and selection.
ISO 13850:2015	Safety of machinery - Emergency stop - Principles for design.
IEC 62061:2015	Safety of machinery - Functional safety of safety-related electrical, electronic, and electronic programmable control systems.
IEC 61508-1:2010	Functional safety of electrical/electronic/programmable electronic safety-related systems: General requirements.
IEC 61508-2:2010	Functional safety of electrical/electronic/programmable electronic safety-related systems: Requirements for electrical/electronic/programmable electronic safety-related systems.
IEC 61508-3:2010	Functional safety of electrical/electronic/programmable electronic safety-related systems: Software requirements.
IEC 61784-3:2016	Industrial communication networks - Profiles - Part 3: Functional safety fieldbuses - General rules and profile definitions.

Standard	Description
2006/42/EC	Machinery Directive.
2014/30/EU	Electromagnetic Compatibility Directive.
2014/35/EU	Low Voltage Directive.

In addition, terms used in the present document may tangentially be used as they are derived from other standards such as:

Standard	Description
IEC 60034 series	Rotating electrical machines.
IEC 61800 series	Adjustable speed electrical power drive systems.
IEC 61158 series	Digital data communications for measurement and control – Fieldbus for use in industrial control systems.

Finally, the term zone of operation may be used in conjunction with the description of specific hazards, and is defined as it is for a hazard zone or danger zone in the Machinery Directive (2006/42/EC) and ISO 12100:2010.

**NOTE:** The aforementioned standards may or may not apply to the specific products cited in the present documentation. For more information concerning the individual standards applicable to the products described herein, see the characteristics tables for those product references.

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# Product Information

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## Overview

### Eliwell AIR APP

The Mobile Application is a diagnostic, maintenance and software management tool targeted at Original Equipment Manufacturers, Installers and End Users of Commercial Refrigeration coolers and related to the TelevisAir electronic control solution for commissioning and maintenance / troubleshooting scenarios under the brand “Eliwell by Schneider Electric”.

The Mobile Application has been developed to be connected with “Eliwell by Schneider Electric” electronic compatible controllers using a Bluetooth Low Energy connection with a Bluetooth dongle or with an AIR Edge Bluetooth / Wifi Ethernet.

The Mobile Application can be used to perform the following tasks:

- Discovering and pairing with Bluetooth Low Energy TelevisAir compatible controllers
- Visualizing the Bluetooth Low Energy signal strength
- Visualizing the GPS geolocation coordinates of the coolers on a map
- Selecting and customizing the set of resources to be managed among the ones available
- Reading and writing the electronic controller’s configuration parameters
- Sending specific manual commands to the electronic controller
- Visualizing the electronic controller’s current working status and the variables and diagnostic values of the selected and customised resources
- Downloading and uploading the electronic controller’s configuration parameters
- Sharing the configuration parameters through any media installed in the smart device running the Mobile Application
- Enabling the datalogging of some specific resources of the electronic controller, limited to the storage capacity of the Dongle, through the Bluetooth low energy connection and the connected device
- Dumping the logged memory and sharing the file through any media installed in the smart device running the Mobile Application

### Eliwell AIR Cloud

It is a CLOUD platform that, after activating the user account, allows you to:

- Display the geographic deployment and general status of the coolers
- Access the single cooler to verify the history of the stored data (table or plot)
- Activate threshold alerting messaging for each variable of the cooler.

# Eliwell AIR

## Description

**Eliwell AIR** is a system for the food preservation sector.

The system can be used by refrigeration technicians for:

- Configuration of compatible instruments using a smartphone with **Eliwell AIR APP** installed
- Remote maintenance of refrigeration equipment connected to **Eliwell AIR Cloud** and access to the telemetries of the specified equipment

The system can be used by the refrigeration instruments owners:

- Temperature recording
- Alarm notifications via email and mobile app

## Components

The **Eliwell AIR** consists at least of:

- 1x **EW AIR EDGE**
- 1x **Eliwell AIR APP**
- 1x **Eliwell AIR Cloud**
- 1x AIR compatible controller

## EW AIR EDGE

It is the Wi-Fi / Ethernet gateway that allows data transfer from the AIR compatible controller to the **Eliwell AIR Cloud** in a secure manner, certified by Schneider Electric's cybersecurity standards. It is supplied of a cable and the power supply terminal.

## Eliwell AIR APP

Mobile application for easy controller configuration and enabling data recording on the **Eliwell AIR Cloud** portal.

The **Eliwell AIR APP** can be downloaded from the:

- Eliwell website ([www.eliwell.com](http://www.eliwell.com)) using the links to the '**APP store**' or the '**Play store**'
- **APP store** for iOS operating system (version 12.0 or greater)
- **Play store** for Android operating system (version 11.0 or greater).

For information regarding the cables to use with the **EW AIR EDGE**, please contact your local Eliwell representative.

**Note:** Update the '**Eliwell AIR APP**' to the latest available version.







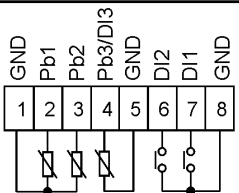
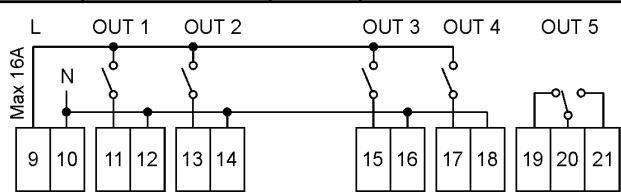
## Eliwell AIR Cloud

Web portal for monitoring connected devices, creating and recording alarms, and remotely controlling controller parameters.

The **Eliwell AIR Cloud** is accessed remotely via a web browser (see [Browser compatibility](#)) without requiring the installation of additional software.

### AIR Compatible controllers

All Eliwell controller that includes 'AIR' in the description or one of the Eliwell compatible families. The description is normally present on the controller or package label. See example below:

<b>COLDFACE</b>		<b>EWRC 500 NT</b>		<b>AIR</b>	 Eliwell Controls srl IT 32016 Alpagò
<b>RCNA3UDRX2E700</b>					
	EU - max 250 Vac	USA - max 240 Vac			<b>Made in Italy</b>
 OUT1	12(8)A	12FLA 72LRA			
 OUT2 / OUT4	8A	8FLA 48LRA			
 OUT3	8(4)A	8A res 4.9FLA 29.4LRA			
 OUT5	NO 8(4)A NC 6(3)A	NO 8A res 4.9FLA 29.4LRA NC 6A res			
Supply 230V~±10% 50/60Hz 11VA				-5T50 (EN 60730-1)	
					

## Main features

### EW AIR EDGE

- Technologies BTLE (Bluetooth), WiFi and Ethernet
- Data storage (user does not lose data)
- SMPS 100-240 Vac power supply (insulated)
- External antenna (optional)
- TTL interface vs controllers
- WiFi standard: 802.11 b/g/n - 2.5 GHz
- BTLE connectivity (standard 5.0)
- Advanced and Fast Remote Control
- Adjustable log sampling up to 5 minutes
- Virtual alarms
- Green LED to display ON/OFF states
- OTA (on the air) Edge FW upgrade
- DIN-Rail mounting or panel mounting with 2x cap screws
- BTLE pairing using the image code on the device case
- WiFi / Ethernet configuration through the mobile APP

### Eliwell AIR APP

- Different profile access levels (installer, end user)
- HACCP standard reports in PDF from the APP
- Alerts notified even to the Eliwell AIR APP
- Alerts from the Cloud displayed on the APP
- Wizard to configure the network



### Eliwell AIR Cloud

- User self registration
- Different profile access levels (installer, end user)
- Bi-directional communication (R/W)
- Connector vs third party Clouds
- Alerts delivered even to the APP
- Coolers fleet sorting and grouping
- Schedule HACCP regular reports from the Cloud



## Models

Di seguito l'elenco dei modelli disponibili:

Reference	Description	Communication Ports	Classification	Power Supply	Web Page
<b>AEBW00T0001100</b>	EW AIR Edge WiFi TTL SD 100...240 V	<ul style="list-style-type: none"> <li>TTL</li> </ul>	Gateway	100...240 Vac	<b>A</b> 
<b>AEBWE0T0001100</b>	EW AIR Edge WiFi-Ethernet TTL SD 100...240 V	<ul style="list-style-type: none"> <li>Ethernet</li> <li>TTL</li> </ul>	Gateway	100...240 Vac	<b>B</b> 

**A** = <https://www.eliwell.com/c.php?m=AEBW00T00011000>

**B** = <https://www.eliwell.com/c.php?m=AEBWE0T00011000>

## Compatibility

**Eliwell AIR APP** and **Eliwell AIR Cloud** are compatible with all Eliwell controller that includes 'AIR' in the description or one of the Eliwell compatible families listed below:

- IDNext
- EWNext

## Languages supported

Le lingue attualmente supportate dal software sono le seguenti:

- Italiano
- Inglese
- Spagnolo
- Tedesco
- Francese
- Russo

**Nota:** ulteriori lingue potranno essere rese disponibili in futuro.

## Browser compatibility

### Browsers supported

Platform	Browser	Minimum version
Personal Computer	Google Chrome	98
	Microsoft Edge	98
	Safari	15.4
Tablet/Smartphone	Android browser	116
	Google Chrome per Android	116
	Safari per iOS	15.4

### Browsers not supported

Platform	Browser	Minimum version
Personal Computer	Firefox	94
Tablet/Smartphone	Firefox per Android	116
	Samsung Internet	18
	Opera mobile	73

### Updating the application

The cache settings can/may influence the loading process of the new system version.

## **NOTICE**

### **INOPERABLE DEVICE**

Following an application update, clear the browser history used to access the system.  
**Failure to follow these instructions can result in equipment damage.**

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# Mechanical installation

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## Before starting

Before installing your system, read this chapter carefully.

Only the user, the machine manufacturer or the integrator can be familiar with all the conditions and factors present during installation and set up, preparing, starting-up and servicing the machine and therefore only they are able to determine which automation equipment and relative safety devices and interlocks can be used in a correct manner. When the automation and control equipment and any other relative equipment or software are selected for a particular application, the applicable local, regional and national standards and regulations must also be taken into consideration. Take extra care to comply with safety standards, electrical requirements and other statutory provisions applied to your own machine.

### **WARNING**

#### **REGULATORY INCOMPATIBILITY**

Make sure that all equipment used and systems designed comply with all applicable local, regional and national laws. **Failure to follow these instructions can result in death, serious injury, or equipment damage.**

## Disconnection from the power supply

Assemble and install all options and modules before installing the control system. Before dismantling the equipment, remove the control system from the wall or panel.

### **DANGER**

#### **HAZARD OF ELECTRIC SHOCK, EXPLOSION, FIRE OR ARC FLASH**

- Disconnect all power from all equipment including connected devices prior to removing any covers or doors, or installing or removing any accessories, hardware, cables, or wires except under the specific conditions specified in this hardware guide.
- Always use a properly rated voltage sensing device to confirm the power is off where and when indicated.
- Replace and secure all covers, accessories, hardware, cables, and wires and confirm that a proper ground connection exists before applying power to the unit.
- Use only the specified voltage when operating this equipment and any associated products.

**Failure to follow these instructions will result in death or serious injury.**

## Operating environment

This equipment is designed to operate in non-hazardous areas and where applications which generate - or could potentially generate - hazardous atmospheres have been isolated. Install this equipment only in areas and with applications known to be constantly free from hazardous atmospheres.

### **DANGER**

#### **HAZARD OF EXPLOSION**

- Install and use this equipment in non-hazardous locations only.
- Do not install or use this equipment in applications which could generate hazardous atmospheres, such as those using flammable refrigerants.

**Failure to follow these instructions will result in death or serious injury.**

For information regarding the use of control equipment in applications capable of generating hazardous materials, please contact the regulatory office or the local, regional or national certification authority.

In addition to the 'Technical Data' section, please refer to the Product Information at the beginning of this document for important information regarding installation in hazardous areas for this specific equipment.

### **WARNING**

#### **UNINTENDED EQUIPMENT OPERATION**

Install and use this equipment in compliance with the conditions described in the "Technical data" section of this document.

**Failure to follow these instructions can result in death, serious injury, or equipment damage.**

## Installation Considerations

### **WARNING**

#### **UNINTENDED EQUIPMENT OPERATION**

- Use appropriate safety interlocks where personnel and/or equipment hazards exist.
- Power line and output circuits must be wired and fused in compliance with local and national regulatory requirements for the rated current and voltage of the particular equipment.
- Do not use this equipment in safety-critical machine functions.
- Do not disassemble, repair, or modify this equipment.

**Failure to follow these instructions can result in death, serious injury, or equipment damage.**

For the mechanical dimensions, refer to "[Mechanical dimensions](#)".



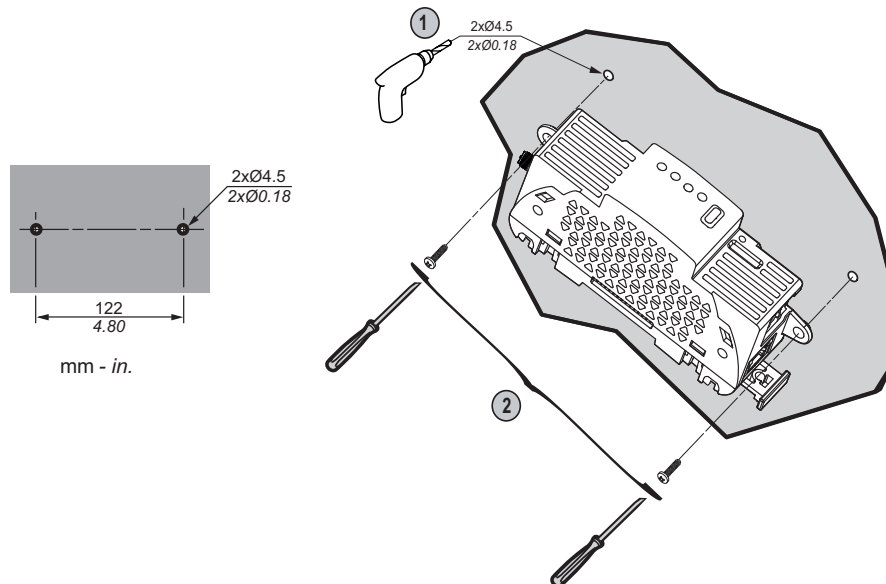
## Panel mounting installation EW AIR EDGE

EW AIR EDGE is intended for panel-mounting (on a flat surface).

**Note:** EW AIR EDGE is only suitable for indoor use. DO NOT install it outdoors.

### How to install/uninstall the controller

To install, secure the device to the panel with 2 screws (not supplied) in line with the holes illustrated in the figure below



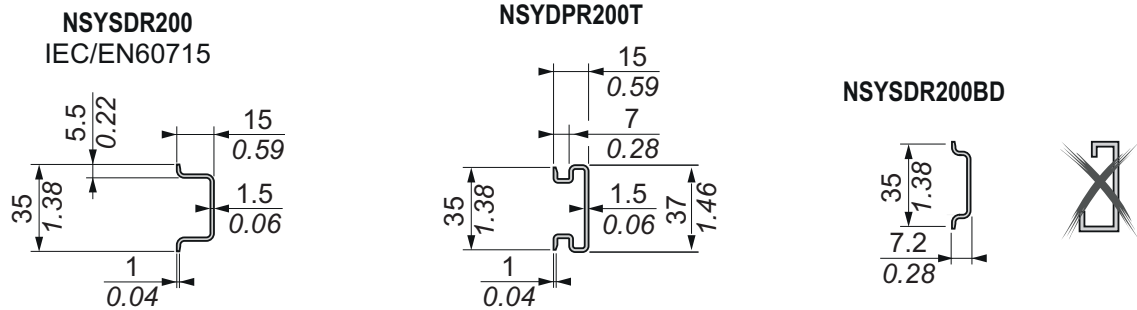
**Note:** use cap screws only.

**Note:** leave the area around the slits clear to allow air recirculation and device cooling.

## Din-Rail mounting EW AIR EDGE

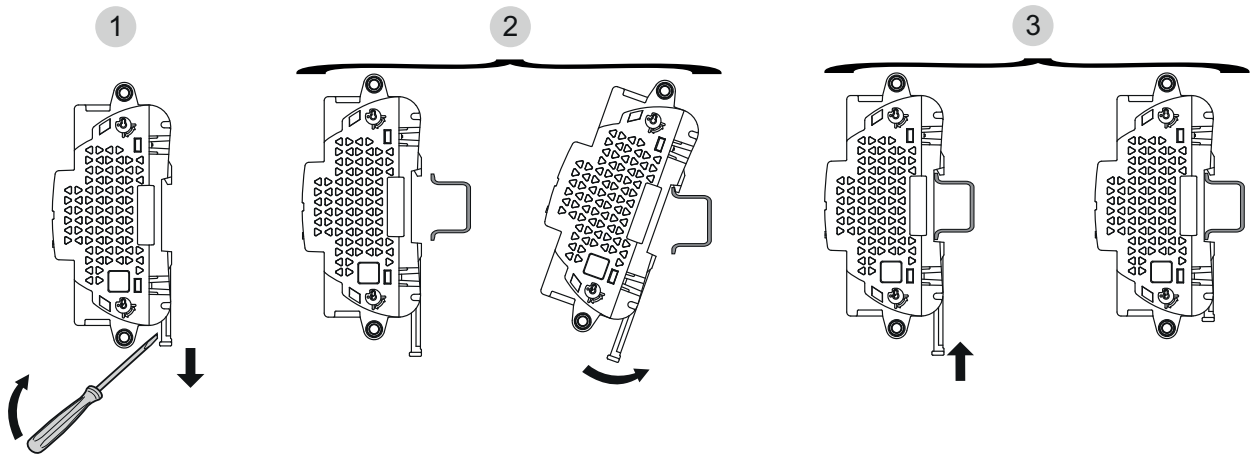
### Top Hat Section Rail (DIN Rail)

You can mount the **EW AIR EDGE** on a 35 mm (1.38 in.) top hat section rail (DIN rail). It can be attached to a smooth mounting surface or suspended from a EIA rack or mounted in a NEMA cabinet. The following illustration show the top hat section rails (DIN rail) for the mounting range:



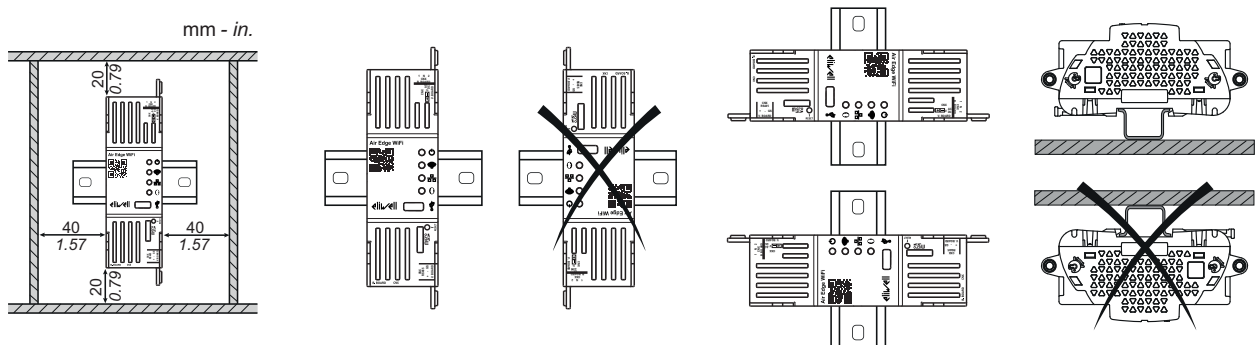
### How to install/uninstall the controller

The following illustration show the mounting method:



### Mounting positions

The controllers can be mount as display in figure:



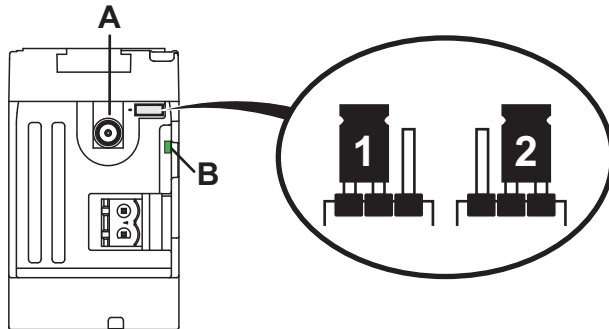


## Antenna configuration via jumper

Antenna configuration takes place via jumper\*:

- **Position 1:** the external antenna is set.  
**Note:** the antenna should be fitted to connector A.
- **Position 2:** the internal antenna is set.  
**Note:** if set, LED B will light up.

\* **Note:** in the absence of a jumper, the external antenna is active



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# Electrical connections

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## Contents

This section includes the following topics:

Wiring Best Practices .....	27
Installation .....	29
Hardware EW AIR EDGE .....	30
Connection example .....	31

## Wiring Best Practices

### Warnings

The following information describes the guidelines for wiring and the practices to follow when using the device.

#### **DANGER**

##### **HAZARD OF ELECTRIC SHOCK, EXPLOSION, FIRE OR ARC FLASH**

- Disconnect all power from all equipment including connected devices prior to removing any covers or doors, or installing or removing any accessories, hardware, cables, or wires except under the specific conditions specified in this hardware guide.
- Always use a properly rated voltage sensing device to confirm the power is off where and when indicated.
- Replace and secure all covers, accessories, hardware, cables, and wires and confirm that a proper ground connection exists before applying power to the unit.
- Use only the specified voltage when operating this equipment and any associated products.

**Failure to follow these instructions will result in death or serious injury.**

#### **WARNING**

##### **HAZARD OF OVERHEATING AND/OR FIRE**

Install and use the equipment exclusively in a protected environment, to prevent direct exposure to sunlight and atmospheric agents.

**Failure to follow these instructions can result in death, serious injury, or equipment damage.**

#### **WARNING**

##### **LOSS OF CONTROL**

- The system designer must consider the potential failure modes of the control circuit and, for some critical control functions, provide a means for reaching a safe condition during and after a circuit failure. Examples of critical control functions are the emergency stop and end of travel stop, power supply cut-off and restart.
- Separate or redundant control circuits must be provided for critical control functions.
- The system control circuits can include communication connections. Keep in mind the implications of transmission delays or sudden connection failures.
- Comply with all standards regarding accident prevention and local applicable safety directives <sup>(1)</sup>.
- Every implementation of this equipment must be tested individually and completely in order to check its proper operation before it is commissioned.

**Failure to follow these instructions can result in death, serious injury, or equipment damage.**

<sup>(1)</sup> For additional information, refer to the standards NEMA ICS 1.1 (latest edition), "Safety Guidelines for the Application, Installation, and Maintenance of Solid State Control" and NEMA ICS 7.1 (latest edition) "Safety Standards for Construction and Guide for Selection, Installation and Operation of Adjustable-Speed Drive Systems" or to equivalent standards that regulate your particular location.

#### **NOTICE**

##### **INOPERABLE DEVICE**

- Disconnect all the equipment before installing/dismantling cables or wires.
- Position and adequately fix the device to prevent cable disconnection.
- The TTL cable must be routed separately from the power cables.
- Verify the length of the TTL cable, referring to the datasheet of the compatible Eliwell AIR device.

**Failure to follow these instructions can result in equipment damage.**


## Wiring guidelines

Observe the following standards when wiring the device:

- Verify that the operating conditions and surroundings comply with the specification values.
- Use wires of the correct diameter and suited to the voltage and current requirements.
- Use copper conductors (required).

## Specific considerations for handling

When handling the equipment, take care to avoid damage caused by electrostatic discharge. In particular, the unshielded connectors are extremely vulnerable to electrostatic discharge.

 <b>WARNING</b>
<b>UNINTENDED EQUIPMENT OPERATION DUE TO ELECTROSTATIC DISCHARGE</b> <ul style="list-style-type: none"><li>• Store the equipment in the protective packaging until ready for installation.</li><li>• Before handling the equipment, always discharge the static electricity from the body by touching an earthed surface or type-approved antistatic mat.</li></ul>
<b>Failure to follow these instructions can result in death, serious injury, or equipment damage.</b>

Before any operations, check that the device is connected to a suitable external power supply. Please refer to "[Technical Data](#)".

## Installation

The **EW AIR EDGE** device has the following communication ports:

- 1x RJ45 Ethernet port (CN1)(depending on the model)
- 1x USB C port (reserved)

Take extra care when performing serial line connections.

Incorrect wiring could make the equipment unusable.

### NOTICE

#### UNINTENDED EQUIPMENT OPERATION

- For power supply connection, use cables no longer than 10 m (32,80 ft).
- For Ethernet connection, use cables no longer than 100 m (328 ft).

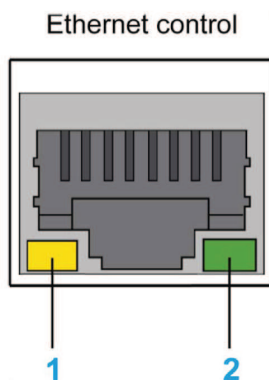
**Failure to follow these instructions can result in equipment damage.**

### Ethernet port (RJ45)

The Ethernet connection is used by **EW AIR EDGE** to communicate on an Ethernet network via TCP/IP protocol. The main Ethernet features are:

- Protocol: Modbus TCP/IP
- Type of connector: RJ45
- Driver: 10 M / 100 M with auto-negotiation
- Cable type: shielded

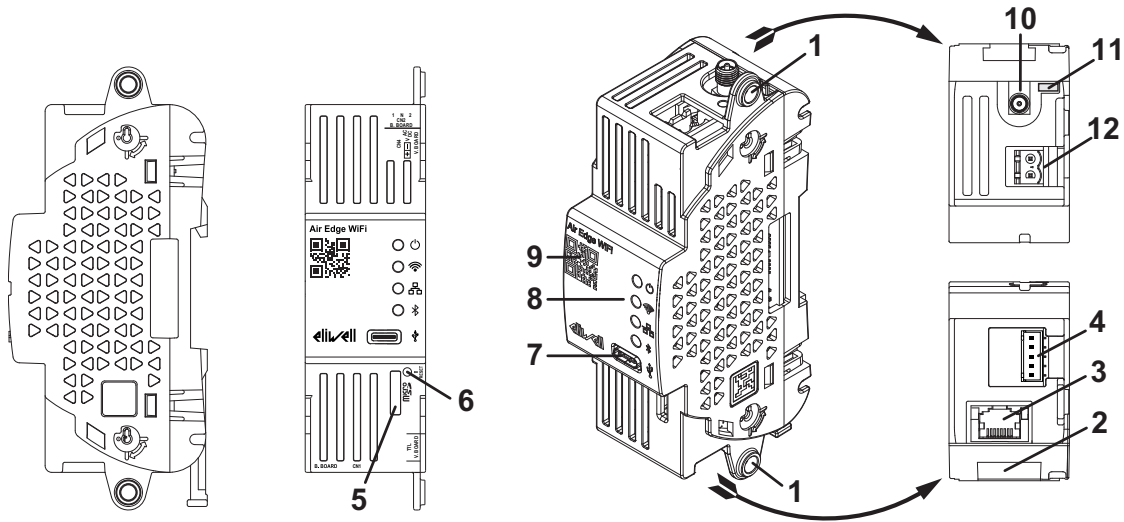
The Ethernet RJ45 LEDs indicate:







Label	Signal	LED		
		Color	Status	Description
1	Ethernet activity	Yellow	Off	No activity
			Flashing	Activity
2	Ethernet link	Green	Off	No Link
			Green LED On	Linked

## Hardware EW AIR EDGE

EW AIR EDGE components are as follows:

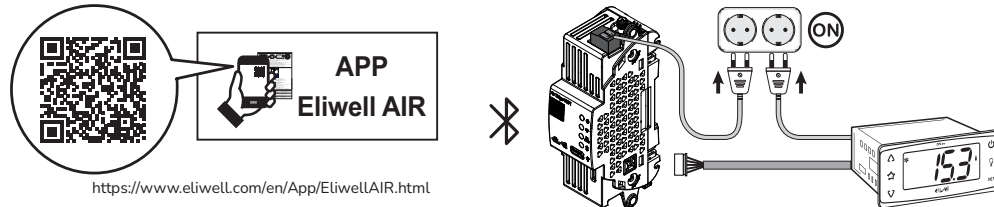


Number	Description
1	Fixing hole. Use screws with nominal diameter: 3.9...4.2 mm (0.15...0.17 in.).
2	Clip-on lock for DIN rail
3	(CN1) Ethernet serial port (depending on model)
4	TTL serial port
5	Slot for memory card (Micro SD)
6	Reset button (refer to the relative section)
7	USB port: not used
8	Operating LEDs • (Green) = On-Off • (Amber) = WiFi connectivity • (Amber) = Ethernet connectivity • (Blue) = Bluetooth
9	<ul style="list-style-type: none"> <li>•  (Green) = On-Off</li> <li>•  (Amber) = WiFi connectivity</li> <li>•  (Amber) = Ethernet connectivity</li> <li>•  (Blue) = Bluetooth</li> </ul>
10	Connector for external antenna (not supplied)
11	(CN2) Antenna configuration Jumper + LED (refer to the relative section)
12	(CN4) Power supply terminal block

## Connection example

**EW AIR EDGE** and compatible device must be connected on TTL port using a cable with conductors with cross-section 0,5 mm<sup>2</sup> (see "[Best wiring practices](#)").

See below a connection example:



In the example were used:

- 1x **Eliwell AIR APP**
- 1x **EW AIR EDGE**
- 1x Compatible device

Signal propagation in an Ethernet network depends on bus traffic, making access nondeterministic and potentially influencing **EW AIR EDGE** access time to the resources with possible No-Link.

### **NOTICE**

#### **UNINTENDED EQUIPMENT OPERATION**

If the connection is difficult, verify if the correct profile is assigned to the network; if not, change it.  
**Failure to follow these instructions can result in equipment damage.**

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# Technical specification

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## Contents

This section includes the following topics:

Technical Data .....	33
FCC USA and IC Canada .....	34



## Technical Data

Feature	Description
The product complies with the following harmonized Standards:	EN 62368-1
Product group:	Built-in component
Classification of use by:	Qualified person
Equipment mobility:	DIN-rail mounting or Panel mounting with screws
Mounted method:	see <a href="#">Mechanical Mounting</a>
Pollution degree:	2
Overvoltage category:	II
Insulation class:	II
Power supply:	100...240 Vac 50/60 Hz ±10 %
Consumption:	5 W
Supply connection type:	Permanent connection
Considered current rating of protective device:	20 A; Location: building
Ambient operating conditions:	Temperature: -20...55 °C (-4...131 °F) Humidity (non-condensing): 5...95 % RH
Transportation and storage conditions:	Temperature: -30...70 °C (-22...158 °F) Humidity (non-condensing): 5...95 % RH
Manufacturer's specified Tma (°C):	60 °C (80 °F)
Power supply system:	TN - TT
IP protection class:	IPX0
Installation:	DIN rail or panel mounting
Wireless technology:	<ul style="list-style-type: none"> <li>• WiFi dual band (2.4 GHz and 5 GHz) - IEEE 802.11b/g/n</li> <li>• Bluetooth low energy 5.2</li> </ul>
Operating frequency:	<ul style="list-style-type: none"> <li>• WiFi: 2412...2472 MHz and 5180...5240 MHz, 5260...5320 MHz, 5500...5720 MHz, 5745...5825 MHz</li> <li>• Bluetooth: 2402...2480 MHz</li> </ul>
Ethernet maximum speed:	100 Mbit/s
Maximum output power:	20 dBm
Maximum transmission range:	10 m (32,81 ft) in the absence of obstacles
Altitude during operation (maximum):	2000 m (6562 ft)
Mass of equipment:	< 1 kg

### WARNING

#### UNINTENDED EQUIPMENT OPERATION

Do not exceed any of the nominal values specified in the environmental and electric characteristics tables.  
**Failure to follow these instructions can result in death, serious injury, or equipment damage.**

## FCC USA and IC Canada

### Compliance Statement / Déclaration de conformité

English	French
<p>This device complies with the following requirements:</p> <ul style="list-style-type: none"> <li>• FCC (Federal Communications Commission) - Part 15</li> <li>• ISED (Industry Canada) RSS-102 and RSS-247 and RSS-Gen</li> </ul> <p>Operation is subject to the following two conditions:</p> <ol style="list-style-type: none"> <li>1. This device may not cause harmful interference, and</li> <li>2. This device must accept any interference received, including interference that may cause undesired operation of the device.</li> </ol> <p>Changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.</p> <p>The sensor is designed for use at least 200 mm (7.87 in.) away from the operator in normal operating conditions.</p> <p>FCC ID: 2AMLEEDGEWIFI IC: 9727A-EDGEWIFI</p>	<p>Cet appareil est conforme avec les exigences suivantes:</p> <ul style="list-style-type: none"> <li>• FCC (Federal Communications Commission) - Partie 15</li> <li>• ISED (Industry Canada) RSS-102 and RSS-247 and RSS-Gen</li> </ul> <p>L'operation est sujet aux deux conditions suivantes:</p> <ol style="list-style-type: none"> <li>1. Cet appareil ne peut pas causer d'interference nuisable, et</li> <li>2. Cet appareil doit accepter n'importe quelle interference reçu, incluant l'interference qui purrait causer une operation indesirée du dispositif.</li> </ol> <p>Les changements ou modifications non approuvés expressément par la partie responsable de la conformité pourrait annuler l'autorité de l'utilisateur à utiliser l'équipement.</p> <p>Le capteur est conçu pour être utilisé, dans les conditions de fonctionnement normales, à plus de 200 mm (7.87 in.) de l'opérateur.</p> <p>FCC ID: 2AMLEEDGEWIFI IC: 9727A-EDGEWIFI</p>

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# Eliwell AIR APP functions

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## Contents

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Eliwell AIR Cloud account login .....	43
Connecting and recording data in Eliwell AIR Cloud .....	44

## Eliwell AIR APP installation

Please carefully read this manual before installing the **Eliwell AIR APP** application. Verify you have an active Internet connection.

The **Eliwell AIR APP** application can be downloaded in 2 ways:

- From Eliwell website
- Directly from App Store (iOS device) or Google Play (Android device)

### NOTICE

#### INOPERABLE DEVICE

- Make sure you install this application (Eliwell AIR) only from a trusted source, such as the Google Play Store or Apple App Store.
- Do not install Schneider Electric applications downloaded from any other website.

**Failure to follow these instructions can result in equipment damage.**

### Procedure to download the application from App Store or Google Play

1. Access the App Store or Google Play.
2. Search for "Eliwell AIR"
3. Select the application.
4. Follow setup wizard.

### Procedure to download the application from Eliwell website

1. Verify that you have installed on the mobile a Scanner QR APP. If not, download it.
2. Scan the image present in the figure below or on the bottle cooler.
3. Allow your mobile to open Eliwell website (<https://www.eliwell.com/eliwellairappdw>).
4. In the web-page select the store (App Store or Google Play).
5. Follow setup wizard.



# First access to Eliwell AIR APP

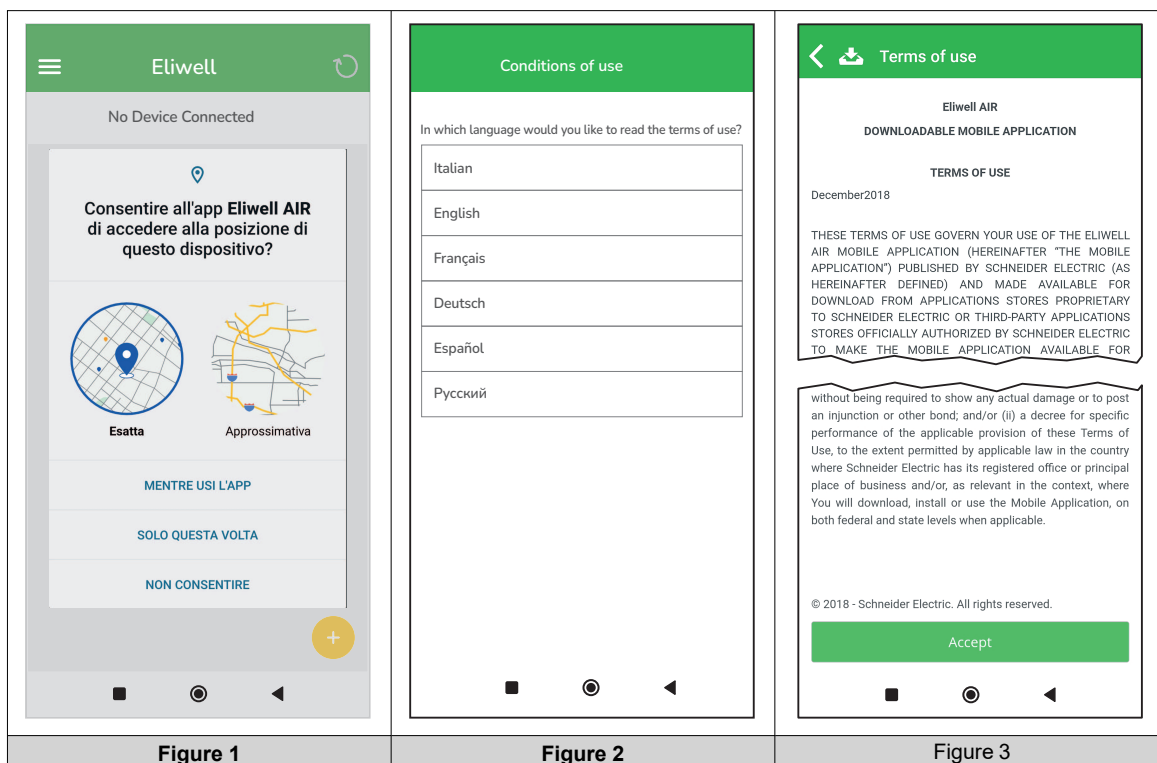
## Before Starting

Make sure you have downloaded the **Eliwell AIR APP** (see [Download APP](#))

## How-To

When launching the **Eliwell AIR APP** for the first time, a splash screen will appear for a few seconds. Once the splash screen disappears, you will need to perform a few actions:

1. Accept the application access to device multimedia
2. Accept the application access to GPS position (Figure 1).
3. Select the language for the "Terms and conditions" texts (Figure 2).
4. Read the "Terms and conditions" texts and accept them by clicking on "Accept" (Figure 3).
5. Verify that the Bluetooth is active



6. Verify that the **Eliwell AIR APP** have the popups active and allow all the necessary permissions
7. After completing the above requests, the application opens the home page.

**Note:** Now you are ready to associate one or more controllers to the application.


# First connection to the controller



## Before Starting

Make sure you have:

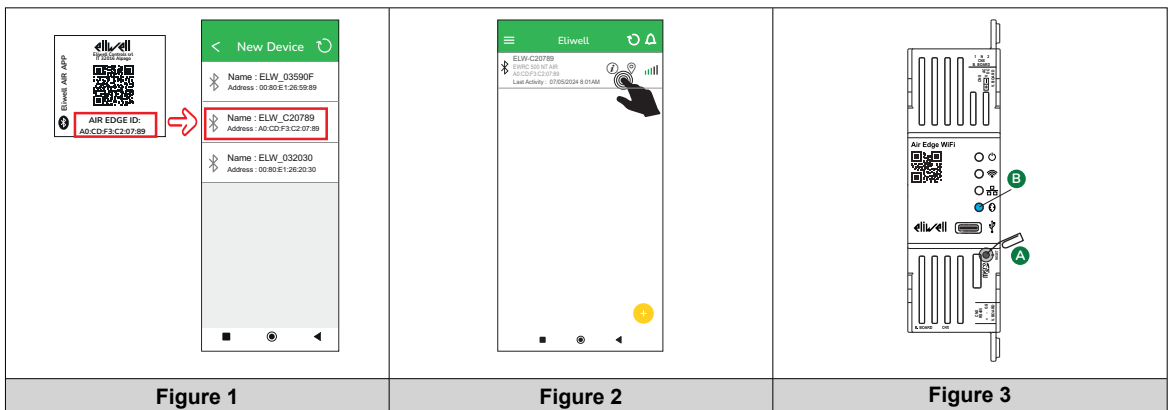
- downloaded and Installed **Eliwell AIR APP** (refer to [Download & Install APP](#) section)
- completed the first access setup to **Eliwell AIR APP** (refer to [First access](#) section)
- activated Bluetooth on the smartphone and verified the signal is good
- connected **EW AIR EDGE** to the Eliwell controller
- powered on the Eliwell controller
- powered on the **EW AIR EDGE** and wait until the green LED is permanently on

## How-To:

1. The **Eliwell AIR APP** home page will show you an empty page
2. Search for available controllers from:
  - the home page: tap on **+** with **Android** or **+** with **iOS (A)**
  - the menu: tap on  (connect new device) (**B** and **C**)(refer to [Menu](#) section)
3. Select the desired controller (tap the name) from the list of available controllers (Figure 1).
 

**Note:** select the controller with the same serial number present on the label of the controller.
4. Tap to controller name to select it (Figure 2).
5. click the reset button on the **EW AIR EDGE** using a small object like a paperclip (**A**) and the Bluetooth LED (**B**) will start to flash (Figure 3)
6. Tap the connect button (  ) in the **Eliwell AIR APP** within 30 seconds
7. Confirm pairing in the pop-up window
8. Wait until the connect button become green (  ) to confirm the successful connection.
 

**Note:** If the procedure fails, repeat it from point 5.
9. Now the controller displays a list of end user and installer preset parameters/ commands/ resources within the relevant tabs.












# Controller configuration procedure

## Before Starting

Make sure you have completed the first connection to the controller (refer to [First connection](#) section)

## How-To:


1. Verify that the button (  YES ) is active to confirm the successful connection with the controller.  
**Note:** only one controller can be selected at a time with **Eliwell AIR APP**  
**Note:** In order to work properly, the maximum distance between the mobile device and the controller should be 10 m (32,81 ft), with no obstacles in between. If there is no signal, you will not be able to access the controller main page.
2. The controller main page will show a preset list of parameters, commands and resources with the relative value.  
**Note:** The preset list is different between "End User" and "Installer".
3. Tap the Resources icon (  ) to customize the list.
4. Select **Parameters**, **Resources** or **Commands** using the drop-down menu at the upper left.
5. The available resources (parameters, resources or commands) will be shown.  
**Note:** the resources already display in the main page will have the selected box checked (  )
6. Add/remove a resource display in the main page by checking / unchecking the box (  /  )  
**Note:** if a parameter is password protected at Level 1 (  ) or Level 2 (  ), tap on the padlock and enter the corresponding password value. All the parameters with the same level of protection will be unlock.
7. Tap the "OK" on the below blue bar to save the selections. The **Eliwell AIR APP** turn back to the main page of the controller
8. For modifying parameters value:
  - select the parameter to modify
  - tap the  icon to modify the value
  - fill in the new parameter value inside the range (Min...Max)
  - confirm the new value by tapping the  icon. The icon will turn green
  - close parameter edit mode. **Note:** Changes will be lost if the value is not confirmed.
9. For executing commands, tap the  icon to execute the command. The icon will turn green.
10. To lock again a parameters level, click on the icon (  ) and then on Level 1 (  ) or Level 2 (  ) icon.

# Copy the configuration between controllers


## Before Starting

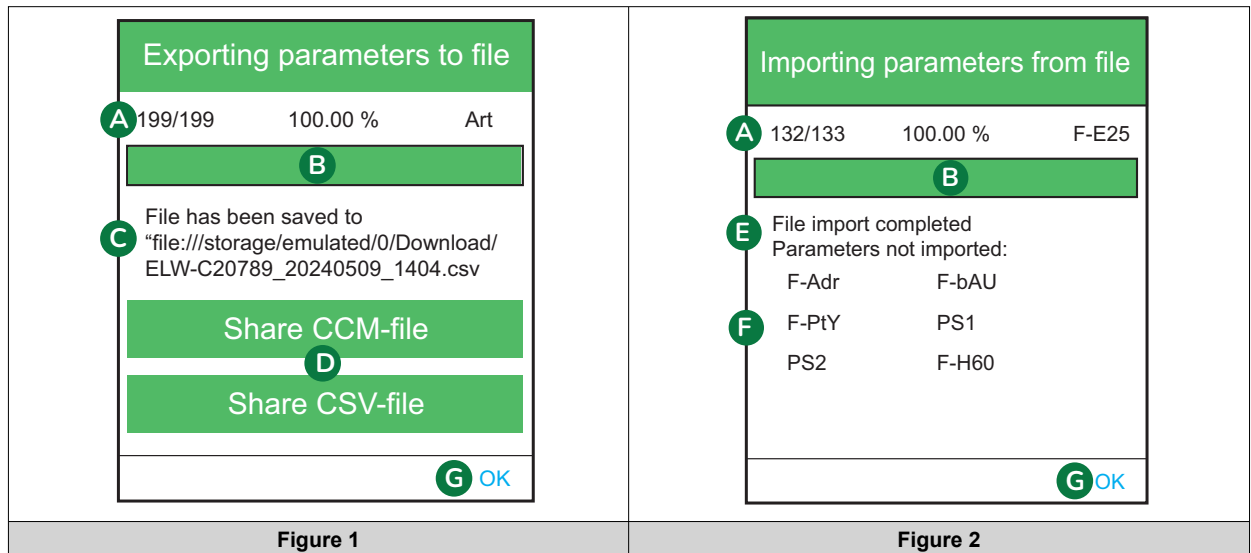
Make sure you have completed the controller configuration procedure (refer to [Controller configuration](#) section)

## How-To Export configuration (Figure 1)

1. Tap on the  icon to download the controller parameters map.
2. Wait the completion percentage is 100.00 %, then select the output file extension (CCM or CSV)
3. Tap **OK** to confirm

## How-To Import configuration (Figure 2)


1. Tap on the  icon to upload the controller parameters map.
2. Select the file to import
3. Tap **OK** to confirm

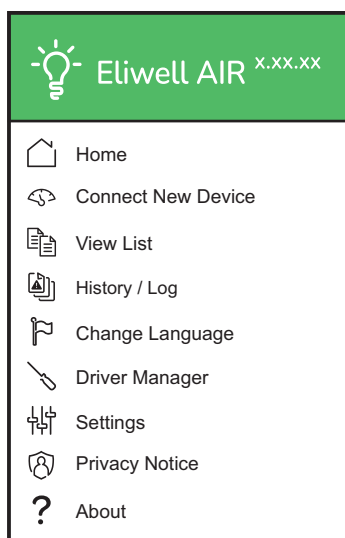











Ref.	Description
A	Displays the number of parameters Exported / Imported out of total, the percentage of completion and the label of actual parameter.
B	Displays the operation completion percentage.
C	At the end of the operation it displays file destination path. During the operation it displays "Finished in about a few seconds".
D	Tap it to share the data file with extension CCM or CSV.
E	At the end of the operation it displays "File import completed". During the operation it displays "Finished in about a few seconds".
F	List of parameters not imported. Import function does not import: read-only parameters, communication parameters and passwords.
G	The "OK", allows to returns to the Controller Main Page.



## Menu

Tap  to open the application menu.



Icon	Content	Description
-	Header	Displays <b>Eliwell AIR</b> and application release ( <b>x.xx.xx</b> )
	Home	Goes to the home page.
	Connect new device	Goes to the page to associate new devices (refer to <a href="#">First connection</a> section).
	View List	Manages the visualization tabs (Control, Maintenance and Advanced). They are used to better identify the use of selected resources. <ul style="list-style-type: none"> <li>• <b>Control</b>: displays resources to use the controller</li> <li>• <b>Maintenance</b>: displays resources for controller maintenance</li> <li>• <b>Advanced</b>: displays resources to manage regulators or functions (qualified personnel only)</li> </ul>
	History/Log	Displays the historic operation register.
	Change Language	Sets one of the available languages. <b>Note</b> : some texts are managed from the Operating System and they are in the language set in your device.
	Driver Manager	Displays the list of installed drivers and allows driver management (upload/update).
	Settings	Settings further information: <ul style="list-style-type: none"> <li>• <b>Enable logging</b>: activates user log (information will be available in "History / Log").</li> <li>• <b>Max number of views</b>: sets the upper limit for visualization tabs</li> <li>• <b>Dashboard refresh</b> (seconds): determines data refresh period (time)</li> <li>• <b>File destination mail</b>: specifies the data destination email</li> <li>• <b>Enter cloud credentials</b>: Set User and Password credentials (refer to Cloud connection section)</li> <li>• <b>Clear login data</b>: deletes login data</li> <li>• <b>Name of this mobile device</b>: Displays controller name</li> <li>• <b>Username</b>: displays the user name</li> <li>• <b>Login valid until</b>: displays the access expiration date</li> </ul>
	Privacy Notice	Displays information about "Product reference", "License status" and "Third party licences".
	About	Displays information about application

## Manually set the controller geolocation


For each controller, the **Eliwell AIR APP** automatically displays the geolocation.

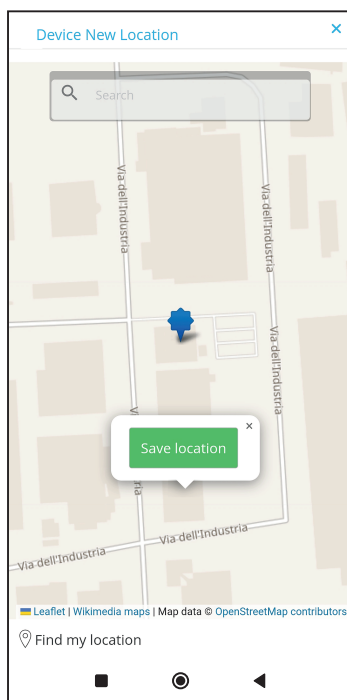
If the automatic geolocation is not correct, it is possible to select it manually.

### Before Starting

Make sure you have activated the GPS on your smartphone

### How-To

1. In the home page, tap , to load the map.
2. Select the location of the device. By default, the **Eliwell AIR APP** suggests your current position.
3. Tap '**Save this location**' to save the location.
4. To change location, tap '**Find my location**' and search it.





## New account registration in Eliwell AIR Cloud

### Before Starting

Make sure you have:

- downloaded and Installed **Eliwell AIR APP** (refer to [Download & Install APP](#) section)
- completed the first access setup to **Eliwell AIR APP** (refer to [First access](#) section)
- an Internet connection with a good WiFi signal

### How-To

1. In the home page, tap the menu button (  ) (refer to [Menu](#) section).
2. Tap the **Settings** button (  )
3. Select the button "**Enter cloud credentials**"
4. In the pop-up windows select the name for the mobile device.
5. Tap "**Register**" to create a new account
6. Enter the following information:
  - Email
  - Name (First and Last)
  - Location
7. Tap Next to complete account creation or "Return to login" to delete registration



## Eliwell AIR Cloud account login

### Before Starting

Make sure you have:

- downloaded and Installed **Eliwell AIR APP** (refer to [Download & Install APP](#) section)
- completed the first access setup to **Eliwell AIR APP** (refer to [First access](#) section)
- a registered valid account for **Eliwell AIR Cloud** (refer to [New account registration](#) section)
- an Internet connection with a good WiFi signal

### How-To

1. In the home page, tap the menu button (  ) (refer to [Menu](#) section).
2. Tap the **Settings** button (  )
3. Select the **Enter cloud credentials** button
4. In the pop-up window, select the name for the mobile device.
5. Enter the registered account **Email** and tap **Next**
6. Enter the account **Password** and tap **Login**  
**Note:** if you do not remember the password, click "Forgot password?" and a verification code will be sent to your Email
7. The **Eliwell AIR APP** displays the "Settings" page again, showing the login information (Name, Username (Email) and Login data/time)








## Connecting and recording data in Eliwell AIR Cloud

### Before Starting

Make sure you have:

- activated the connection with the controller.
- done the login to **Eliwell AIR Cloud** account (refer to [Account login](#) section)
- an Internet connection with a strong WiFi signal

### How-To

1. In the controller main page, tap the **Setup** button (  ), to set the connection type using a Wizard or to update firmware
2. Select the Wizard corresponding to the type of connection used and follow the instructions until you reach the end of the process. The available connection type are: Ethernet (  ) and WiFi (  ).  
**Note:** If the selection is Ethernet (  ), it is suggested to use the DHCP option.
3. If you are:
  - logged in **Eliwell AIR Cloud**, the system displays you the account data. Tap confirm.
  - not logged in **Eliwell AIR Cloud**, the system open the Login page (refer to [Account login](#) section)
4. Proceed with the registration of the **EW AIR EDGE**
5. Now the **Eliwell AIR APP** automatically verify the available Internet connection
6. Select the right Internet connection and enter the password of the Network
7. Tap **Enter** to proceed
8. In the new window, assign a name to the **EW AIR EDGE**
9. Select an existing group or create a new one for the **EW AIR EDGE**
10. Tap **Enter** to complete the registration of the **EW AIR EDGE**
11. Tap on  icon to access Datalog menu for configuring the datalogging.
12. Sets the datalogging Interval from a drop-down list. **Note:** the value is expressed in minutes.
13. Set the elements to datalogging by tap the resources button (  ).
14. Tap **Datalogging** (  ) and confirm with "OK"

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# Eliwell AIR Cloud functions

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







## Home page - List of connected controllers


### Before Starting

Make sure you have:

- activated the connection of a **EW AIR EDGE** to **Eliwell AIR Cloud** (refer to Connection in Eliwell AIR Cloud section).
- an Internet connection with a strong WiFi signal

### How-To:

1. Open the **Eliwell AIR Cloud** link (<https://televisair.eliwell.com>)  
**Note:** The same «User Name» and «Password» have to be set inside the **Eliwell AIR APP** application to associate the controller data with the proper Cloud account
2. Enter «User Name» (Email) and tap **Next**
3. Enter «Password» and tap "**Login**"
4. The **Eliwell AIR Cloud** home page will appear and display you the list of associated devices.  
**Note:** If you have not associated any controller, the web page will be empty.
5. Tap  icon to open **Menu (A)**:
  - **Support:** redirects you to the Schneider Electric support page
  - **FAQ's:** redirects to the Schneider Electric FAQs page
  - **Legal:** redirects you to the Schneider Electric web page with Terms&Conditions and Service description
  - **Privacy Policy:** redirects you to the Schneider Electric web page with Terms&Conditions and Service description
  - **Copyright:** redirects you to the Schneider Electric "Legal information"
  - **Social:** connects you to available social channels.
6. Tap  icon (**B**) to select the application language: **English, French, Spanish, Italian, German or Russian.**
7. Tap  icon to manage **User (C)**:
  - **Profile Update:** update personal data
  - **Change Password:** update password value
  - **Change Email:** update email address
  - **Logout:** exit
8. Tap on the **header (D)** to access the following menu:
  - **HOME:** home page
  - **STATISTICS:** various graph for device or groups
  - **ALARMS:** alarm rules management and history
  - **MANAGEMENT:** user information and associated mobile
  - **GROUPS:** devices groups management
  - **DATA EXPORT:** HACCP report management
9. Tap the **Filter**  (**E**) to filter the controllers list by one of the displayed information
10. In the **Controller list (F)**, are displayed the following information
  - **#** = progressive number associate to the controller. **Note:** if one or more alarms are present, an icon will be displayed before the number:  for Critical alarm or  for Warning alarm.
  - **device** = link to open the controller main page
  - **Last Connected** = last connected date
  - **Alarms** = number of active alarms. Click on the number, to display the "[Alarm rules management](#)" page.
  - **Country** = country where the controller was installed
  - **Group(s)** = group(s) of the device
  - **Device type** = device type (Edge, Bluetooth, etc.)
  - **Status** = device status
  -  = displays the geolocation of the device on the map.
11. In the Map view (**G**), are displayed devices location on the map and the presence of alert for each device:
  -  : no active alarm;
  -  : low severity active alarm;
  -  : high severity active alarm.

A


B
C

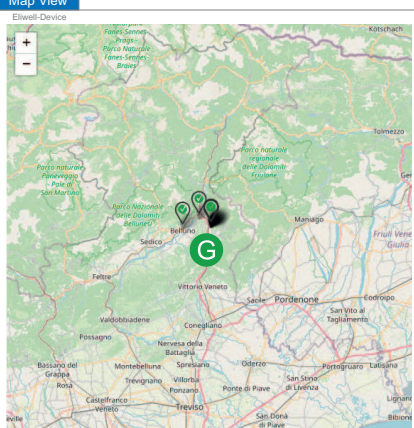
D
E
F

HOME STATISTICS ALARMS MANAGEMENT GROUPS DATA EXPORT

### Device list

#	Device	Last connection	Alarms	Country	Group(s)	Device type	Status
1	ELIWELL_1	15-09-2020 11:17	0	Italy	MKTG display	Edge	Active
2	ELIWELL_2	04-08-2020 13:01	0	Italy		Edge	Active
3	ELIWELL_3	04-06-2020 22:09	0	Italy		Edge	Active
4	ELIWELL_4	03-05-2020 23:01	0	Thailand		Edge	Active
5	ELIWELL_5	17-03-2020 11:37	0	India		Edge	Active
6	ELIWELL_6	24-02-2020 16:58	0	Italy		Edge	Active
7	ELIWELL_7	19-02-2020 17:29	0	Germany	EUROSHOP	Edge	Active
8	ELIWELL_8	18-02-2020 16:04	0	Italy		Edge	Active
9	ELIWELL_9	14-02-2020 12:55	0	Italy		Edge	Active
10	ELIWELL_10	10-02-2020 16:33	0	India		Edge	Active

### Map View




# Telemetry of a connected controller

## Before Starting


Make sure you have:

- accessed the **Eliwell AIR Cloud** (refer to [Home page](#) section)
- activated the datalogging in **Eliwell AIR APP** (refer to Connection in Eliwell AIR Cloud section).




## How-To:

1. Tap on the controller device name from the list of connected controllers on the Home page.
2. Click on **Telemetry**.
3. The header displays information about controller (Device name, Dongle Uid name, Controller model and Firmware version if available).
4. Click on the icon  if you want to update the device name.
5. **Last Connected On** displays you the last connection date and time with data upload.
6. On the left, the windows displays the list of resources (active and inactive) saved (maximum 8 active resources).

**Note:** The list of resources, displays all selected resources on **Eliwell AIR APP**.


- **#:** progressive number associate with the controller.
  - **Resources:** label of the resources.
  - **Timestamp:** date and time of the last data upload.
  - **Value:** the current value uploaded.
  - **Unit:** the unit of measurement.
  - **Select:** allows you to select () / deselect () a resource.
  - **Alarms** : allows you to add a new 'Virtual Alarm' related to the resources (see [Add Virtual Alarm](#)).
7. On the right, the windows displays the uploaded data in the selected period as a table or a graph.
 


**Note:** The windows only displays data of active resources.

    - **View Data:** allows you to select the period for data display from one of the following: last 24 hours, week or month.
    - **Until:** set the last data to be displayed. The "View Data" starts to count from this point backwards.
    - : allows you to select the visualization as a table:
      - **Rows:** identify date and time when data was acquired.
      - **Column:** identify the resources selected and the respective value for each date and time.
      - **Export:** allows to export a **.xlsx** file with data displayed and save it to the PC.
    - : allows you to select the visualization as a graph:
      - **x-axis:** displays the resources uploaded time.
      - **y-axis:** displays the selected resources value.
      - : Allows to select the option listed below:
        - view the graph in full screen.
        - print chart displayed.
        - download PNG image of the graph.
        - download JPEG image of the graph.
      - **Reset Zoom:** Allows to reset zoom of the current view.
      - **Legend:** Displays the list of resources with the associated color. Click on each resource to display / hide relevant trend line.

**Note:** The graph is auto-scaled. Pinch fingers to zoom.





English
Name Surname


HOME
STATISTICS
ALARMS
MANAGEMENT
GROUPS
DATA-EXPORT

< BACK
Device: ELIWELL\_2
Dongle Uid: ELIWELL\_2
Controller Model: IDNext 974 P B
Firmware Version:
Last Connected On: 13/12/2023 11:17:31

Telemetry
Settings

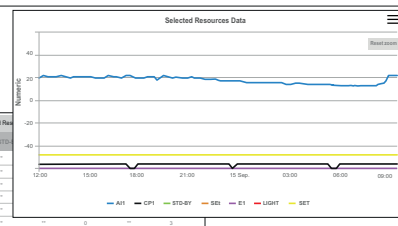
Select Resources Data
Get Data

View Data: Last 24Hr WEEK MONTH Unit: 13/04/2023

Note: Maximum of 8 resources are allowed to view data

#	Resources	Timestamp	Value	Unit	Select	Alarms
1	Air1	13-04-2023 11:04:03	26	°C	<input checked="" type="checkbox"/>	
2	CP1	13-04-2023 11:04:03	1	flag	<input checked="" type="checkbox"/>	
3	STD-BY	13-04-2023 15:06:42	0	flag	<input checked="" type="checkbox"/>	
4	SE1	13-04-2023 15:06:42	2,5	°C	<input checked="" type="checkbox"/>	
5	E1	13-04-2023 11:04:03	0	flag	<input checked="" type="checkbox"/>	
6	LIGHT	13-04-2023 15:06:42	0	flag	<input checked="" type="checkbox"/>	
7	SE1	13-04-2023 11:04:03	3	°C	<input checked="" type="checkbox"/>	

#	Timestamp	Air1	CP1	STD-BY	SE1	E1	LIGHT	SE1
1	13-04-2023 00:11:25	24,6	1	"	"	"	"	3
2	13-04-2023 00:35:38	24,6	1	"	"	"	"	3
3	13-04-2023 00:41:52	24,7	1	"	"	"	"	3
4	13-04-2023 00:57:56	24,7	1	"	"	"	"	3
5	13-04-2023 01:12:26	24,7	1	"	"	"	"	3
6	13-04-2023 01:27:34	24,6	1	"	"	"	"	3
7	13-04-2023 01:42:47	24,6	1	"	"	"	"	3
8	13-04-2023 01:58:01	24,6	1	"	"	"	"	3
9	13-04-2023 02:13:15	24,5	1	"	"	"	"	3
10	13-04-2023 02:28:29	24,5	1	"	"	"	"	3



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## Controller - Remote reading and writing

### Before Starting








Make sure you have:

- accessed the **Eliwell AIR Cloud** (refer to [Home page](#) section)
- activated the connection to the **Eliwell AIR Cloud** for one or more controllers.






### How-To:

1. Tap to the controller device name from the list of connected controllers in the Home page
2. Click on **Settings**
3. The Header displays you the information about controller (Device name, Dongle Uid name, Controller model and Firmware version if available)
4. Click on icon  if you want to update the device name
5. The "**Last Connected On**" displays you the last connection date and time with data upload
6. Select the resources to display using the drop-down menu at the upper left:
  - **All**: display all the resources available
  - **Parameters**: displays parameters only
  - **Resources**: displays resources only
  - **Commands**: displays commands only







### Select Parameters (read and write):

1. To show a parameter at the beginning of the list, on the **Favourites** column, select .
2. To search one or more parameters by label or description, tap **Filter** ()
3. To read the parameter value tap the  icon. The system will show you:
  - **Favourites**: allows you to select () or deselect () a parameter
  - **Label**: displays the label of the parameter
  - **Description**: displays the description of the parameter
  - **Min**: displays the minimum value that the parameter can assume
  - **Max**: displays the maximum value that the parameter can assume
  - **Current Value**: displays the current value (only after an upload)
  - **Unit**: displays the Unit of measurement
4. To update the current value of a parameter:
  - Tap the  icon
  - Click on the current value and modify it
  - Tap the  icon again to save change.

### Select Resources (read only):

1. To show a resource at the beginning of the list, on the **Favourites** column, select .
2. To search one or more resources by label or description, tap **Filter** ()
3. To read the resources value tap the  icon. The system will show you:
  - **Favourites**: allows you to select () or deselect () a resource
  - **Label**: displays the label of the parameter
  - **Description**: displays the description of the parameter
  - **Current Value**: displays the current value (only after an upload)
  - **Unit**: displays the Unit of measurement

## Select Commands (execute only):


1. To show a command at the beginning of the list, on the **Favourites** column, select .
2. To search one or more commands by label or description, tap **Filter** (.
3. The system will show you:
  - **Favourites**: allows you to select () or deselect () a parameter
  - **Label**: displays the label of the parameter
  - **Description**: displays the description of the parameter
4. To execute a command:
  - Tap the  icon
  - Tap the  icon again to stop the execution

# Alarm rules management


## Before Starting

Make sure you have accessed the **Eliwell AIR Cloud** (refer to [Home page](#) section)




## How-To create an alarm rule

1. Tap to the controller device name from the list of connected controllers on the Home page
2. Click on **Telemetry**
3. Tap on the Alarms icon (  ) of a specific resource
4. In the "**Add Alarm Detail**" window enter:
  - **Alarm Name**: Alarm rule name
  - **Dongle Uid** : dongle type (automatically inserted)
  - **Controller** : controller type (automatically inserted)
  - **Resources** : resource name (automatically inserted)
  - **Limit (Min)**: minimum range value
  - **Limit (Max)**: maximum range value
  - **Notified Email To**: alarm email destination list.  
**Note**: in the drop-down list "Select Users", you can sets the alarm email destination from a list of registered users
  - **Severity**: alarm severity (warning or critical)
  - **Delay**: alarm activation time delay
5. Tap "Cancel" to exit without creating the rule
6. Tap "Save and Apply" to save the new rule.

## How-To update an alarm rule





1. Tap to the controller device name from the list of connected controllers on the Home page
2. Click on **Telemetry**
3. Tap on the Alarms icon (  ) of a specific resource
4. On the **Update Alarm Details** page, edit the information inserted during creation of virtual alarm rule.
5. Tap "Cancel" to exit without creating the rule
6. Tap "Save and Apply" to save the report.

## How-To display and manage an alarm rule:

1. Click on **Alarms**
2. Click on **Alarm Rules**
3. The **Alarm Rules** page displays the alarms rules and allows to enable/disable/delete one or more rules.
  - **Search** (  ): filter the alarms rules by name.
  - **Alarm Name**: displays the alarm rules name.
  - **Limit**: displays the alarm rule activation setting (Limit (Min)...Limit(Max)).
  - **Severity**: displays the severity assigned to the alarm rule (warning or critical).
  - **On/Off** (  ): enable/disable an alarm rule
  - **Actions** (  ): delete an alarm rule. A pop-up box appears. Click "**Yes**" to confirm the choice or "**No**" to cancel the operation.

## How-To display alarm rule history:

1. Click on **Alarms**.
2. Click on **Alarm Information**.
3. The **Alarm Information** page displays the alarms rules history.

- **Search** (  ): filter the alarms rules by name.
- **Icon**: displays the alarm status (  = alarm ended;  = warning alarm active;  = critical alarm active)
- **#**: displays a progressive number.
- **UID**: displays the label of the alarm rule.
- **Device**: displays the controller name.
- **Geo Location**: displays where the controller is located.
- **Start**: displays the activation date and time.
- **End**: displays the deactivation date and time.
- **Status**: displays the alarm rule status (active or inactive).
- **Severity**: displays the severity assigned to the alarm rule (warning or critical).
- **Rule**: displays rules name. By clicking on it, a box with the Rule settings will appear.
- **Resource**: displays the resources used by the rules.





# Automatic HACCP Report Setup

## Before Starting

Make sure you have:

- accessed the **Eliwell AIR Cloud** (refer to [Home page](#) section)
- activated the datalogging in **Eliwell AIR APP** (refer to Connection in Eliwell AIR Cloud section).


## HACCP report:

1. Click on **Data Export**
2. The **Data Export** page will show you:
  - **Report Name**: Displays the name of saved report.
  - **Report Frequency**: Displays the report generation frequency setting (daily, Weekly or Monthly).
  - **Notified Email To**: Displays the email address for report notifications.
  - **Enable/Disable**: The slide (  ), activate/deactivate the report generation.
  - **Actions**: Allows you to:
    -  : edit the information of the report
    -  : delete the report
    -  : download the reports saved on the cloud
  - **Search**: Allows you to filter the reports. The search is active on all the columns.
  - **Add new report**: Allows you to create a new report.


## How-to create a new report:

1. Click on **Data Export**.
2. Click on **Add new report**. **Note**: all the fields are mandatory.
3. In the window enter:
  - **Report Name**.
  - **Report Frequency** : frequency of report generation (daily, Weekly or Monthly).
  - **Data Frequency**: data acquisition frequency (One, Two, Three or Four time per day) starting from 2:00 am.
  - **Select Device**: device associated to the report.
  - **Resources**: list of resources to enter in the report (maximum 8 resources).
  - **Format**: format of report file (.pdf, .csv or .xlsx).
4. Tap "Cancel" to exit without creating the rule.
5. Tap "Save and Apply" to save the report.


## How-To update a report:

1. Click on **Data Export**.
2. Click on the **Action**  icon.
3. On the **Update Report Details** page, edit the information inserted during creation of the report.
4. Tap "Cancel" to exit without creating the rule.
5. Tap "Save and Apply" to save the report.

## How-To delete a report:

1. Click on **Data Export**.
2. Click on the **Action**  icon.
3. The **Delete Report: <Name>** page will appear.
4. Tap "**No**" to exit without deleting the report and "**Yes**" to delete the report.

## How-To view a report history:




1. Click on **Data Export**
2. Click on the **Action**  icon
3. The **<Name> History** page will appear
4. The windows displays:
  - **Created Date (UTC)**: Displays date and time of report generation.
  - **Actions**: Allows you to download a specific report.
  - **Cancel**: Allows you to exit without download a report.

## Grouping of connected devices

### Before Starting

Make sure you have accessed to the **Eliwell AIR Cloud** (refer to [Home page](#) section)


### Groups:

1. Click on **Groups**
2. The **Device Group** page will show you:
  - **Group Name:** Displays the group name of saved group.
  - **Description:** Displays a description of the controller group.
  - **Create Date (UTC):** Displays the date and time when the group was created.
  - **Actions:** Allows you to:
    -  : displays the information about the group
    -  : allows to update the group datas
    -  : allows to delete the group
  - **Search:** Allows you to filter the reports. The search is active on all the columns.
  - **Create New Group:** Allows you to create a new group.


### How-to create a Group:

1. Click on **Groups**.
2. Click on **Create New Group**.
3. In the window enter:
  - **Name of the Group**
  - **Select Device:** device associated to the group
  - **Add Description:** group description
4. Tap "Cancel" to exit without creating the group
5. Tap "Save and Apply" to save the group.


### How-To update a Group:

1. Click on **Groups**.
2. Click on the **Action**  icon
3. On the **Edit Group Details** page, edit the information inserted during creation of the group.
4. Tap "Cancel" to exit without creating the rule.
5. Tap "Save and Apply" to save the report.

### How-To delete a Group:

1. Click on **Groups**.
2. Click on the **Action**  icon.
3. The **Delete Group: <Name>** page will appear.
4. Tap "**No**" to exit without deleting the report and "**Yes**" to delete the report.

### How-To view Group information:

1. Click on **Groups**.
2. Click on the **Action**  icon.
3. The **Group Information** page will appear
4. The windows displays:
  - **Group Name.**
  - **Search:** to filter the devices of the Group.
  - **Device:** the list of the devices associated to the group.
  - **Last Connected:**the last connection date and time





- **Status:** the devices status (Active/Inactive).
- **Close:** Close the windows.

## Phone/Tablet management

### Before Starting

Make sure you have accessed to the **Eliwell AIR Cloud** (refer to [Home page](#) section)

### How-To:

1. Click on **Management**
2. The **Phone/Tablet** page will show you:
  - **#**: Displays the progressive number assigned to the User.
  - **Mobile Uid**: Displays the mobile device identification number list.
  - **Mobile Model**: Displays the version of the mobile device model.
  - **Mobile OS | Version**: Displays the version of the mobile device software.
  - **Issued On**: Displays the data and time when the mobile device was registered.
  - **Actions**: Allows you to delete a mobile device (  ).
  - **Search**: Allows you to filter the mobile devices. The search is active on all the columns.
3. Select one **Mobile Uid** and click  to delete it
4. The **Delete device** page will appear.
5. Tap "**No**" to exit without deleting the report and "**Yes**" to delete the report.

**Note:** only the End User can create a new **Mobile Uid** device and delete an existing one.

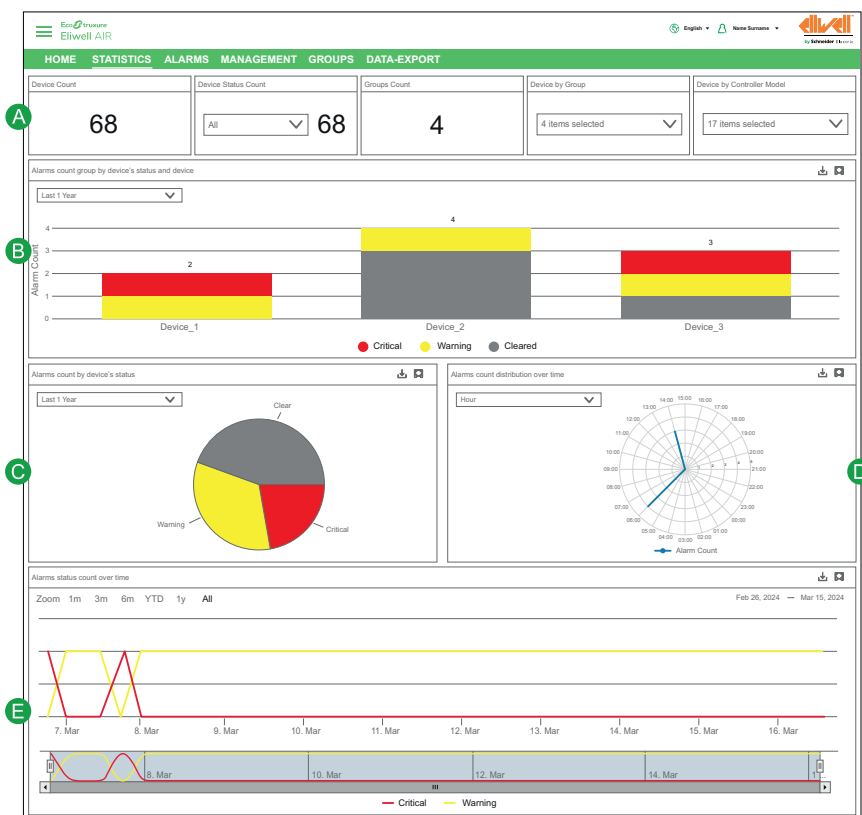
**Note:** For OEM User (read only access), is requested to contact Eliwell Support to create their **Mobile Uid**.

## Statistics

Allows you to create a new Alarm Rule by clicking on the green alarm icon (🔔) in Telemetry web page.

### How-To:

1. Click on **Statistics**
2. The first line displays devices data (**A**):
  - **Device Count**: displays the number of devices registered in **Eliwell AIR Cloud**.
  - **Device Status Count**: allows to select specific devices based on their connection status (online devices, offline devices, all)
  - **Groups Count**: displays the count of selected groups.
  - **Device by Group**: allows to select specific group of devices.
  - **Device by Controller Model**: allows you to select specific type of devices.
3. **Alarms count group by device's status and device (B)**: displays the alarms count (cleared, warning or critical) for each selected device.
4. **Alarms count by device's status (C)**: displays a graph for all selected devices, highlighting the total quantity of alarms (cleared, warning, or critical). Users can select from the following time periods: Day, Last week, Last Month, Last 3 Months, Last 1 Year.
5. **Alarm Count distribution over time (D)**: displays the distribution of alarms across the selected devices by time intervals: last Hour, last day or last Month.
6. **Alarm status count over time (E)**: Allows to:
  - **Zoom**: selects the time interval to display on the graph, including options such as last month (**1m**), last three months (**3m**), last six months (**6m**), from January 1st to today (**YTD - Year To Date**), last year (**1y**), or all alarm recordings (**All**).
  - **Period**: displays interval time selected with the Zoom
  - **Graph**: displays the graph of the alarms in the selected period (only critical and warning alarms)  
**Note**: The horizontal scroll bar allows you to view only a portion of the selected interval.



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