Naveo® Pro
Smart monitoring system to manage emergency lighting with a mobile app

An intelligent emergency lighting solution
Discover ABB’s smart emergency lighting solutions controlled completely from your mobile device. Naveo®Pro enables a transparent way to set up, maintain and control the entire emergency lighting installation, while keeping a record of all activity safely in the cloud. Utilising the ABB Ability™ platform gives you integrated cyber security for safety and reliability, enables better maintenance planning, and reduces operating costs.
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With Naveo®Pro you can concentrate on what matters: letting your emergency lighting luminaire system manage itself and reduce the amount of time monitoring it. This will save you a considerable amount of money on maintenance time, allowing you to focus on problems quickly and as they happen. In figures, this could have potential savings of up to 30% on costs each and every year.
The ABB Ability™ platform is an integrated Internet platform and cloud infrastructure.

**ABB ability™ enables Intelligent Buildings**

ABB Ability™ connects our customers to the power of the Internet of Things and, through our services and expertise, goes further by turning data insights into the direct action that "closes the loop" and generates customer value in the physical world.
Introduction

A new age of intelligent solutions

Our lives are touched daily by the Internet. It widens our horizons and improves our capabilities by connecting us to a wider community and their collective knowledge.

ABB puts fully integrated systems to work in industrial, commercial and residential buildings. We are ‘seeing, hearing, and feeling’ our building infrastructure like never before and this empowers the decisions we make to optimise performance. This development allows us to control products more safely, with greater efficiency, and with lower environmental impact, not just individually, but as complete systems, working in harmony to enhance power and productivity for a better world.

For over a decade ABB has been working to develop and enhance process control systems, communications solutions, sensors and software for the Internet of Things (IoT). These technologies enable all building owners in industries, utilities and infrastructure to analyse their data more intelligently, optimise their operations, boost their productivity, and their flexibility. ABB is advancing the IoT by helping their customers develop their existing technologies, while keeping sight of our enduring commitment to safety, reliability, cyber security and data privacy.

High level of cyber security
Cyber security for automation and control systems has gained a lot of attention in the last few years and is becoming increasingly important for all building managers or owners.

By understanding market conditions, customer needs and the cyber environment, ABB strives to achieve the required levels of cyber security without compromising operational performance. Our solutions are aimed at reducing business risk, providing comfort and confidence, as well as enabling compliance with standards and legal requirements.

With the early days of cloud enablement behind us, it’s clear that “security” means much more than protection against cybercrime: certainly connections need to be safe, but the value of that data should also be protected. Customers should not be required to forfeit safety, value, or control in order to realize the benefits of digitization, and ABB Ability™ closes the loop between these needs with an innovative, multi-layered approach to security.

The ABB Ability™ platform is an integrated Internet platform and cloud infrastructure based on ABB’s leading expertise in technologies, industries and digital to allow businesses to harnesses the power of connected building data. The platform enables customers to securely integrate and aggregate their data, combine with wider industry data, apply big data and predictive analytics, and generate insights that can help them drive performance and productivity improvements.
Monitoring and testing
Are you prepared for an emergency?

Emergency lighting installations must be monitored and tested regularly to ensure they can save lives of building occupants in the event an emergency occurs.

To optimise the safety of visitors or users in the event of a disaster, you’re obliged to ensure you maintain and record the health of your emergency lighting. Moreover, as the owner or building manager you are legally responsible and accountable for your emergency lighting installation.

You have to deal with both legislation and standardisation;
• Fire Safety Regulations require emergency lighting to be tested in accordance with BS 5266-8 (EN 50172), EN 1838 and BS EN 62034. This standard provides an explanation of inspection, maintenance and the log book record whether held manually or electronically.

In addition to the standards legal requirements and guidelines, common sense must be applied. Emergency lighting contains component parts such as printed circuit boards (PCBs), batteries and light sources that all have a limited lifespan. All emergency lighting installation require, just like many building and home automation solutions such as fire alarms or HVAC systems, regular maintenance. This applies to maintained or non-maintained emergency lighting, whether it is lit continuously or not.
Overview in inspection and maintenance
In practice, ongoing inspection, maintenance and testing of emergency lighting is a time-consuming process with a great deal of work that has to be carried out regularly during every year that the installation is in place. These costs can be outweighed with a centralised automatic test system.

With Naveo®Pro you can concentrate on what matters: letting your emergency lighting luminaire system manage itself and reduce the amount of time monitoring it. This will quickly save you a considerable amount of money on maintenance time, allowing you to focus on problems quickly and as they happen. In figures, this could have potential savings of up to 30% on costs each and every year.

An overview of the advantages
• Inspection and maintenance software for mobile device
• Save time in planning maintenance ahead
• 24/7 overview of all monitored buildings via google maps
• Save administration time with on-site data entry using your mobile app
• Status alerts pushed to your mobile device
• Automatic list of (replacement) parts, including article numbers
• Ensuring that intended design of the emergency lighting installation is never compromised
• Documents can be used to prove safety of building to insurance companies, e.g. Liability and Buildings Insurance
Automatically generated lists of materials and parts in PDF format provide a clear overview of both the preparatory work and the work to be carried out. When carrying out maintenance jobs, you know exactly what you are ordering at the wholesaler’s, and what is going to be delivered. Naveo®Pro gives you peace of mind and helps you execute your maintenance more efficiently.

Always a step ahead
The Naveo®Pro system goes much further than simply providing a 24/7 overview of all emergency lighting luminaires. Naveo®Pro mobilises your information. For instance, you can view the status information on your emergency lighting system in the Naveo®Pro app at all times. This means you have full control of the safety of your building at your fingertips.
Naveo®Pro
The emergency lighting inspection and maintenance solution

Naveo®Pro is a system from ABB that utilises a gateway to inspect, monitor and manage all types of emergency lighting installations.

This information can be processed directly using a mobile device. In practice, this will save you time on collecting and entering information.

No unnecessary equipment handling, illegible paperwork and annotations, long hours of double data entry or unnecessarily travelling back and forth for replacement parts. Just one easily accessible database accessed from multiple devices, with clear information, making the task of ongoing maintenance vastly simpler.

The Naveo®Pro inspection and maintenance system provides a digital overview via the cloud – providing ready information to assist resource planning and enhance building safety.

Data is stored in the cloud and accessed via a mobile device thus ensuring and safeguarding the reliability of your emergency lighting installation.
How do you apply Naveo®Pro?

Connecting your emergency lighting luminaires to the ABB gateway is simple and makes real time system status information readily available and easy to process via the cloud. Having this information enables you to get status directly to your mobile device. This method of accessing controlling, and monitoring the status of your installation, makes maintenance of your installation a great deal easier.

How does it work?

With Naveo®Pro being connected all the time, your emergency lighting system is always fully up to date. You can easily set up the connection:

• The Gateway continuously receives all luminaires data and pushes this information to the Naveo®Pro app.
• On continuous request from the cloud the Gateway automatically sends all (test) data to the Naveo®Pro app. With Naveo®Pro you are therefore constantly in touch with your system status anytime and anywhere.

• During a visual inspection of your building you can add notes directly into the app which means you can record your visual risk assessments in one place.

01 The Naveo®Pro architecture for emergency lighting consists of three tiers; emergency lighting luminaires, the ABB gateway and the cloud.

01 Naveo®Pro Gateway connects your emergency lighting to the Cloud

The Naveo®Pro Gateway is an IoT Gateway designed to deliver connectivity to all types of installations. The gateway acts as a networking device that connects the emergency lighting luminaires with the data stored in the cloud. The gateway is at all times connected to the cloud providing a realtime status of your safety systems.

* Up to 500 luminaires per gateway.
13 HOW DO YOU APPLY NAVEO®PRO?

Extensive range of compatible luminaires

ABB offers a broad range of luminaires which are compatible with the Gateway and can enable your system to join the internet of things with all the benefits that an app and the Cloud can bring.
Introducing the Naveo®Pro app

Naveo®Pro system allows customers to set up, maintain and fully control their entire emergency lighting installation with a new mobile app.

How does it work?
The Naveo®Pro App provides a real time overview of all systems, saving time, enabling better maintenance planning and enhancing building safety.

With the Naveo®Pro app, all types of emergency luminaires can be easily installed and programmed into a building in a fast and intuitive way using a QR code.

Through the ABB Ability™ platform, the system provides a digital overview via the cloud, giving instant information to assist resource planning and enhance building safety, which can be processed directly from a mobile device.

With emergency luminaire data stored in the cloud, the mobile app provides a 24/7 overview of all smart monitored buildings via Google maps. Building maps can be uploaded and overlaid onto Google maps, showing its current status and providing a clear and precise location of the emergency lighting luminaire.

Set-Up
Easily install and add new devices to your building through a list or map

Maintain
Defective devices are automatically detected and reported on your device in addition to push notifications

Test
Run test instantly or program them to ensure that all your devices are working properly

Share
Easily share the results of tests with other people on your team

A web mapping service
The Naveo®Pro is intuitive and allows you to access all information in your safety installation using Google maps that is integrated in the Naveo®Pro application. This means that the emergency lighting can be pinpointed to a precise Google maps location. You can upload a floorplan directly into the app. Once orientated into position you can overlay the position of each emergency lighting luminaire in your building by floor. The map view allows you to see all luminaires on the floor or select one luminaire and locate its position in the building.
HOW DO YOU APPLY NAVEO® PRO?

The Naveo® Pro app enables you to access your installation wherever you are on site.
Applications

ABB’s smart emergency lighting technology enables people to work better, faster and smarter. Naveo®Pro is designed to improve safety in all types and sizes of commercial and industrial buildings.

Office buildings
All medium to large sized office building designed to provide an workplace and working environment for single or multiple firms.

Commercial buildings
Commercial buildings used for business operations and activities. This includes retail buildings, warehouses, hospitals, airports or stations.

Hospitality industry
All segments within the service industry that help large groups of customers meet their leisure and recreational needs - Like hotels, stadiums, casinos or wellness centres.

Education
All public buildings which facilitate learning. This includes schools, universities, libraries and learning centers, libraries, colleges, etc.

Industry and infrastructure
Medium size buildings in industrial or infrastructure sector like factories.

Data centres
All types of data centres including those that house computer systems, telecommunications and storage systems.
You can simply monitor any of your building installations from anywhere at any time to suit you and concentrate your resources where they are most needed. Naveo®Pro is growing with you and putting you in total control.

Whatever size and geographical spread that your buildings cover, Naveo®Pro offers you a scalable and customised solution. This means, for example, that you can have Naveo®Pro for use in a hospital complex in one area, but also for multiple locations spread over a city. Alternatively, you may have buildings spread across locations over a large region or country. You can simply monitor any of your building installations from anywhere at any time to suit you and concentrating your resources where they are most needed. Naveo®Pro is growing with you and putting you in total control.
Is Naveo®Pro something for me?

Naveo®Pro is ideal for those responsible for carrying out inspections and maintenance on all types of emergency lighting luminaires.

It doesn’t matter if you are specifier advising your customer for a new project, an installer with several smaller projects, a facility manager of a hospital complex or owner of multiple office buildings.

The principle remains the same. You and your team will have more time left for other work and you can take on more projects and be more efficient in the process of maintaining the buildings safety installation.

Your benefits

Specifier

Use Naveo®Pro to speed up with smart building development and improve buildings safety
- Compliant with legislation and standardisation
- Optimal safety for building users
- Up to 15% more value to your project
- A clear and innovative starting point for your customer

Installer

Use Naveo®Pro to connect emergency lighting systems and devices, and secure data flow between devices and the cloud
- Connect up the system to the cloud in just 15 minutes
- Saving time with on-site administration and therefore cost reduction
- 24/7 insight into your activities
- Easy to expand

Building & facility manager

Use Naveo®Pro to monitor the building safety systems and improve the ability of occupants to respond to emergencies and maintain health and safety
- Take action in just 1 minute
- Fewer interruptions for work activities in your area
- 24/7 control of the safety level in your building
- Total cost of ownership reduced

End user

Peace of mind monitoring and reduced ongoing operational costs
- Potential savings of up to 30% in operational costs
- Optimised safety for your employees
- Expandable to meet your changing needs
Why choose Naveo®Pro?

Experience has shown that inspecting luminaires is a huge job. The luminaires are inspected on site, piece by piece, to see if the PCB, light source and battery are working. It’s the same routine for every inspection. This can be done much more efficiently with an app based monitoring system, offering benefits for all.

Installation benefits

1. Digital inspection
   Naveo®Pro gives you the status of the PCB, light source and battery instantly and in real time on your screen. Using the Naveo®Pro on your mobile device, you can simply view the data and check the health of your system at any time. In relative terms, you can do the majority of the inspection work on screen. Visual risk assessments of your building installation will still need to be carried out but with Naveo®Pro you will now have a lot more time to do that. During your on-site inspection tour, you then actually check for unforeseen circumstances and include this information in your reports. For instance, damage to pictograms or covers, blockages in corridors leading to exit doors and changes to building use.

2. Minimise your data input
   With Naveo®Pro, you control all the information. No illegible notes and annotations, endlessly retyping data or spending hours looking for information. Naveo®Pro steers you through the inspection process and saves you much time spent on data processing. Your digital data is up to date and is immediately accessible. After the testing, you generate your PDF log at the click of a button. From the test data information generated you can easily plan your maintenance schedules.

3. Proactive alerts for the highest degree of safety
   Naveo®Pro allows you to make repairs when a malfunction occurs. You will receive a push notification in the Naveo®Pro app guiding you precisely to the faulty luminaire or fitting:
   - You can set up a schedule for regular inspection, for instance once a year.
   - Plan your maintenance around quiet periods or when full staffing is available based on the data you receive from the system.
   - Setting the Naveo®Pro schedule according to the lifecycle of the parts ensures the most effective maintenance alertness, as this enables you to make preventive repairs ahead of any malfunctions.

4. Fast and intuitive in use
   Once you have downloaded the app from the App store you will find that the app is intuitive in its design and places you in full control of your installation. Using the app is simple:
   - After setting up a new organisation and adding all your luminaires, you can set up group test schedules and collect reports.
   - When there is a fault this is shown in the app and the faulty component can be ordered.
   - The replacement of the component can be logged in the maintenance records.
   - All information is stored safely in the Cloud.
Scheduling maintenance

1. Order via the automatic materials list
   After your confirmation, Naveo®Pro generates a PDF of your full list of materials and parts to be ordered at the wholesalers. In this way, you avoid having to endlessly search through catalogues or online for the right parts for luminaires and article numbers.

2. Optimal overview during maintenance
   During on-site maintenance, you can use an extensive list of materials, the so-called maintenance record. In addition to the precise location, this maintenance record provides the item number, as well as the product description and the action. Checking your notes time and time again are now a thing of the past as all notes are stored in the app. This can be used to remind you of extra requirements such as HSE cards, an extra-long ladder or details such as opening hours. You are in control of your work.

3. Filter and cluster your maintenance the way you want
   At the push of a button, you have an overview of all the potential and current maintenance issues, allowing you to structure data as you see fit. Using the list or map view, you can review the work at all levels. You have an overview of the information pertaining to multiple buildings or you can focus in on the specific details of a corridor. The list or map view allows you to group maintenance activities and fine-tune their scheduling. You divide the work by site, part of the building or floor for you or your team.

4. Direct logging
   After carrying out maintenance on the luminaires, you tick off the action to immediately update the Naveo®Pro homescreen. In the app you can download the certificate to prove the installation is working properly.

5. Online with the Cloud
   With the Naveo®Pro app you can always access your information, wherever you are. You never have to perform any software updates or server maintenance, but you do benefit from the advantages of the latest version. New luminaire parts and article coding will be automatically incorporated into the system. All of this makes Naveo®Pro particularly easy to use.
Discover Naveo® Pro
Download the mobile app

Available now!
Download the Naveo® Pro app
AN INTELLIGENT EMERGENCY LIGHTING SOLUTION

With emergency luminaire data stored in the cloud, the mobile app provides a 24/7 overview of all smart monitored buildings via Google maps. Building maps can be uploaded and overlaid onto Google maps, showing its current status and providing a clear and precise location of the emergency lighting luminaire.