

# INOView

Safety at a glance



# INOTEC Sicherheitstechnik GmbH

## Innovative emergency lighting technology



INOTEC Sicherheitstechnik GmbH is a company with the target to create innovative and customer oriented solutions for the emergency and safety lighting market.

In 1999, only a few years after the company was founded in 1995, the new production- and administration buildings with approx. 2.500m<sup>2</sup>, located in Ense-Höingen, were ready for moving in. These buildings had to be expanded by additional 3.400m<sup>2</sup> only 2 years later, due to the increased demand of INOTEC products. The same happened in 2008, when we had to expand once again by additional 2.800m<sup>2</sup>. Our 3rd expansion started in 2012. New production- and administration buildings of 4.000m<sup>2</sup> were build up this time..

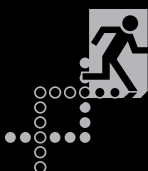
A dynamic team of highly professional and flexible employees covers all aspects regarding products, engineering and standards

Modern, technical advanced products, "Made in Germany", are setting new global standards like JOKER technology for emergency lighting systems or Dynamic Escape Routing (D.E.R.).

Our products can be found in airports, hotels, stores, office buildings, meeting areas, places of work, ... . We ensure the safe escape from hazardous places in buildings, where a lot of nonlocal people stay.

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manufacturers permission.

Subject to technical changes..

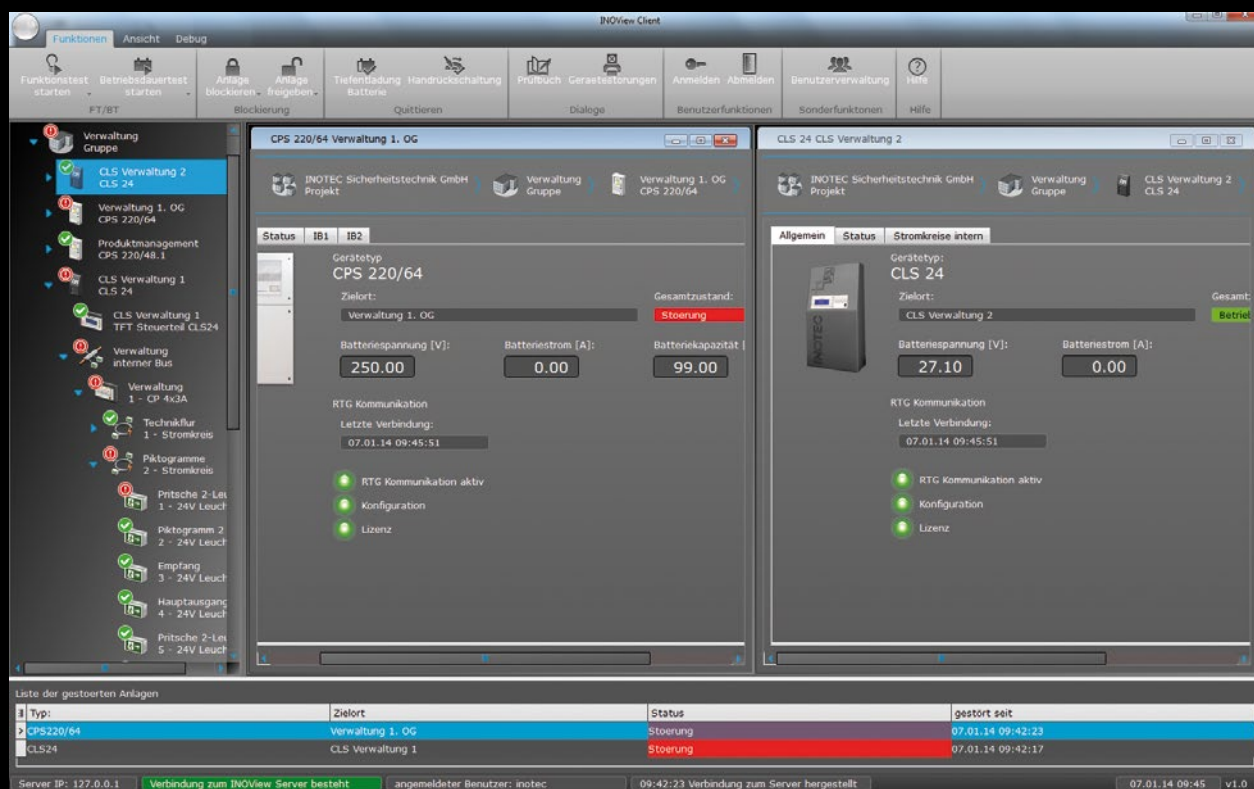


# The new view - INOView

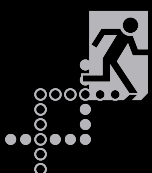
Emergency- and safety- lighting is designed to ensure safety of people in buildings in case of power failure or fire. So this is also guaranteed in case of emergency, safety devices have to be tested, serviced and monitored according to the latest standards. The results have to be logged accordingly.

The new INOTEC monitoring software INOView supports you.

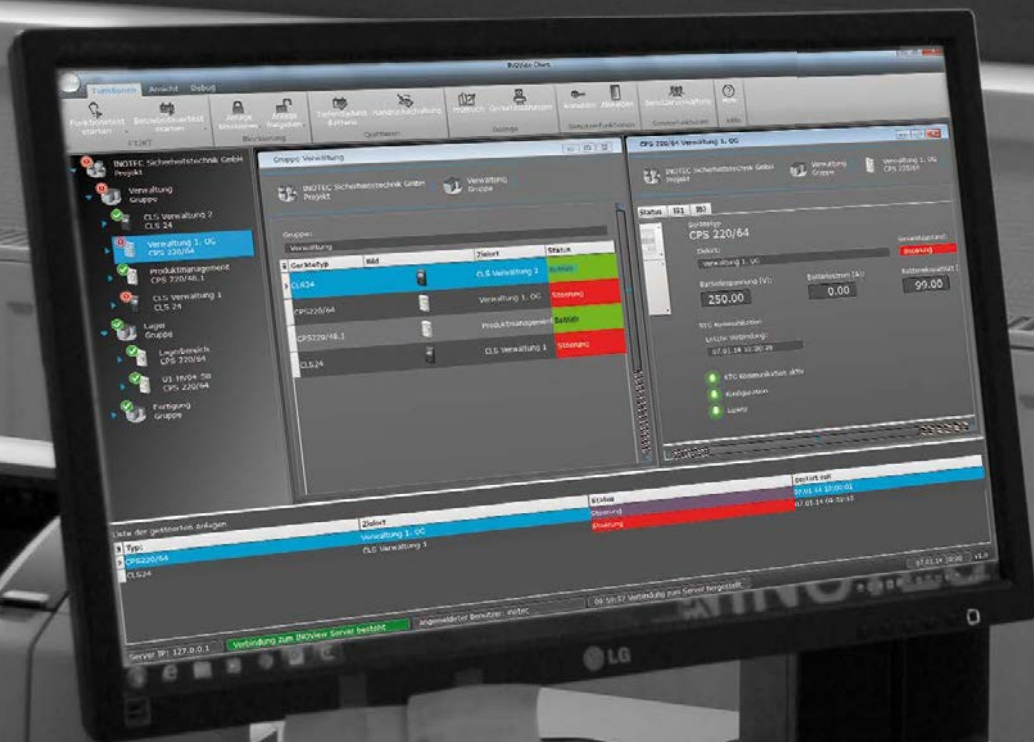
It offers a variety of options to react flexible to demands. The integrated logbook records the system states at any time according to the standards.



- ▶ Monitoring of INOTEC emergency lighting systems  
CPS 220/20, .../64, .../48.1, CLS 24(.1)
- ▶ Connection via LAN or INOTEC RTG-BUS
- ▶ Failure information down to every luminaire incl. its location text
- ▶ Logbook
- ▶ Dialogue device failures
- ▶ Grouping function
- ▶ Automatic function/ duration test individually programmable for different levels (project-,group- or device- level)
- ▶ Simultaneous display of several detailed views
- ▶ Multiple languages
- ▶ Protection against unauthorised access
- ▶ Multi-user access
- ▶ Client-Server operation
- ▶ E-mail report in case of a status change
- ▶ Floor plan visualisation







# Safety of persons always at a glance

The ease of use was the main focus when developing the visualisation software INOView. Hereby the intuitive user interface was created with clearly structured system overviews and description texts. At just a glance, the user recognises the overall condition of the emergency lighting systems and may optionally quickly take measures to guarantee the safety of people in the building. The INOView software ensures transparency and provides comprehensive and detailed information on the overall and detailed system status.

## Modern client-/server – architecture

The modern and future-proof client-server architecture ensures the security of your investment. Multiple users can access the INOView server simultaneously with all its available information by their locally installed clients. An integrated user management protects the software against unauthorised



## Adaptable

Project layouts and requirements always vary. The INOView software can be configured according to your needs and wishes. With its integrated grouping function the display of a project can be personalised. The monitored systems for example can be sorted by location, buildings or responsibilities.

## Powerful but comfortable

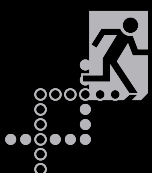
INOView keeps your emergency lighting systems clearly structured "under control". An intuitive user interface and customisable visualisations ensure the ease of use. INOView grows with its challenge. Whether a school or an airport, with state of the art technology it's focused on the individual requirements of the customer.

## Automated testing

Required tests and maintenance are significantly simplified with the help of automated testing by INOView. You can freely define tests for individual devices, groups or the overall project.

## Benefits

- ▶ Ease of use
- ▶ Transparency
- ▶ Adaptable, flexible and expandable
- ▶ Modern software architecture

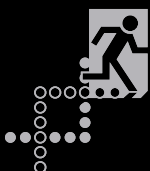
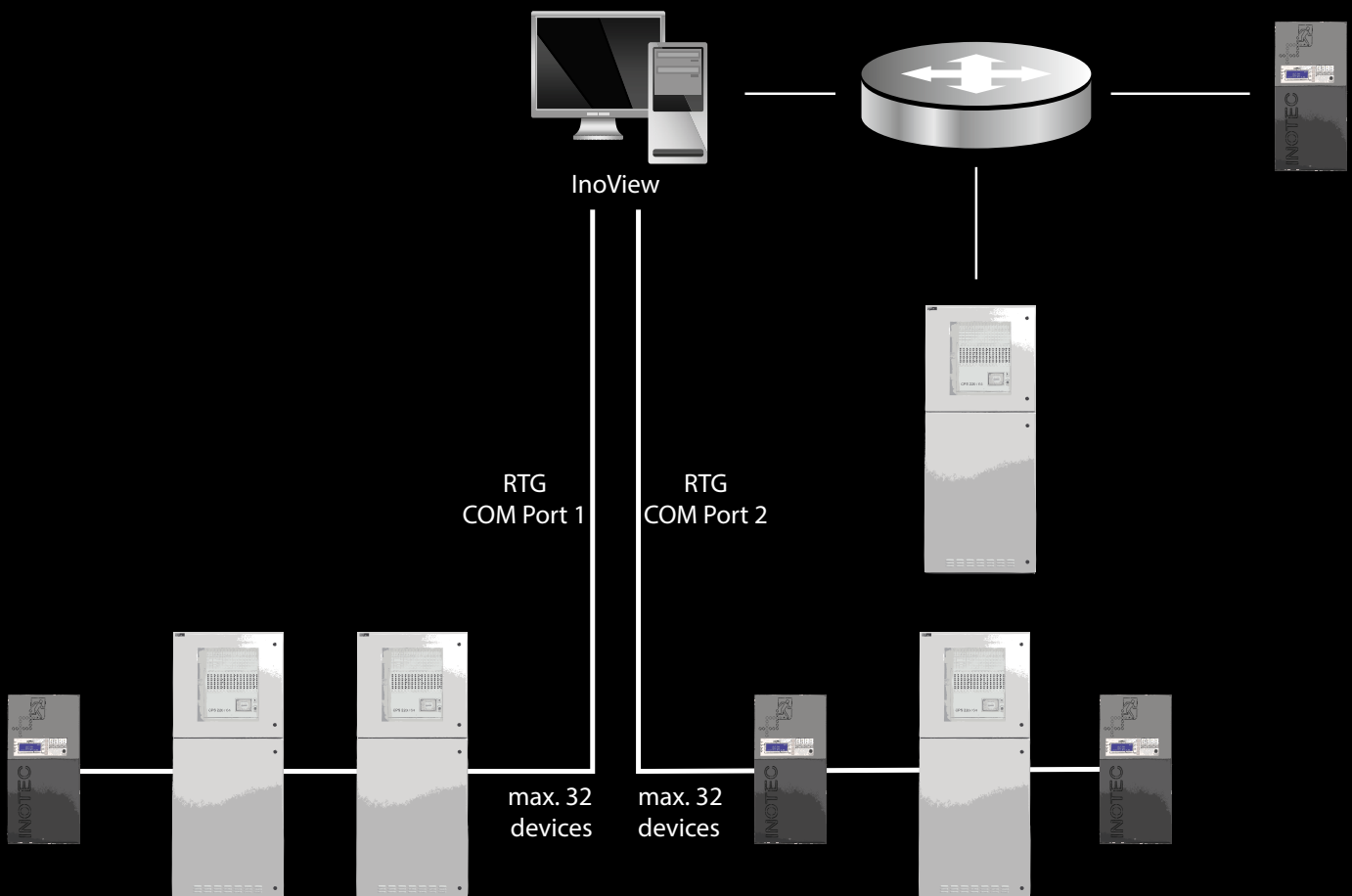


# Installation examples

Client- and server- components are installed on the same PC. Monitored systems are connected by USB interface (INOTEC RTG-BUS) or network interface. Access is only possible by this PC. Network access is not provided

The three core INOTEC RTG-BUS allows a free topology of line- and star- wiring within a total length of 500m. Different device types can be mixed within one line.

Typical applications: schools, nursing homes, car parks, theatres, cinemas, small industrial companies, etc.

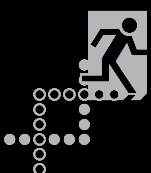
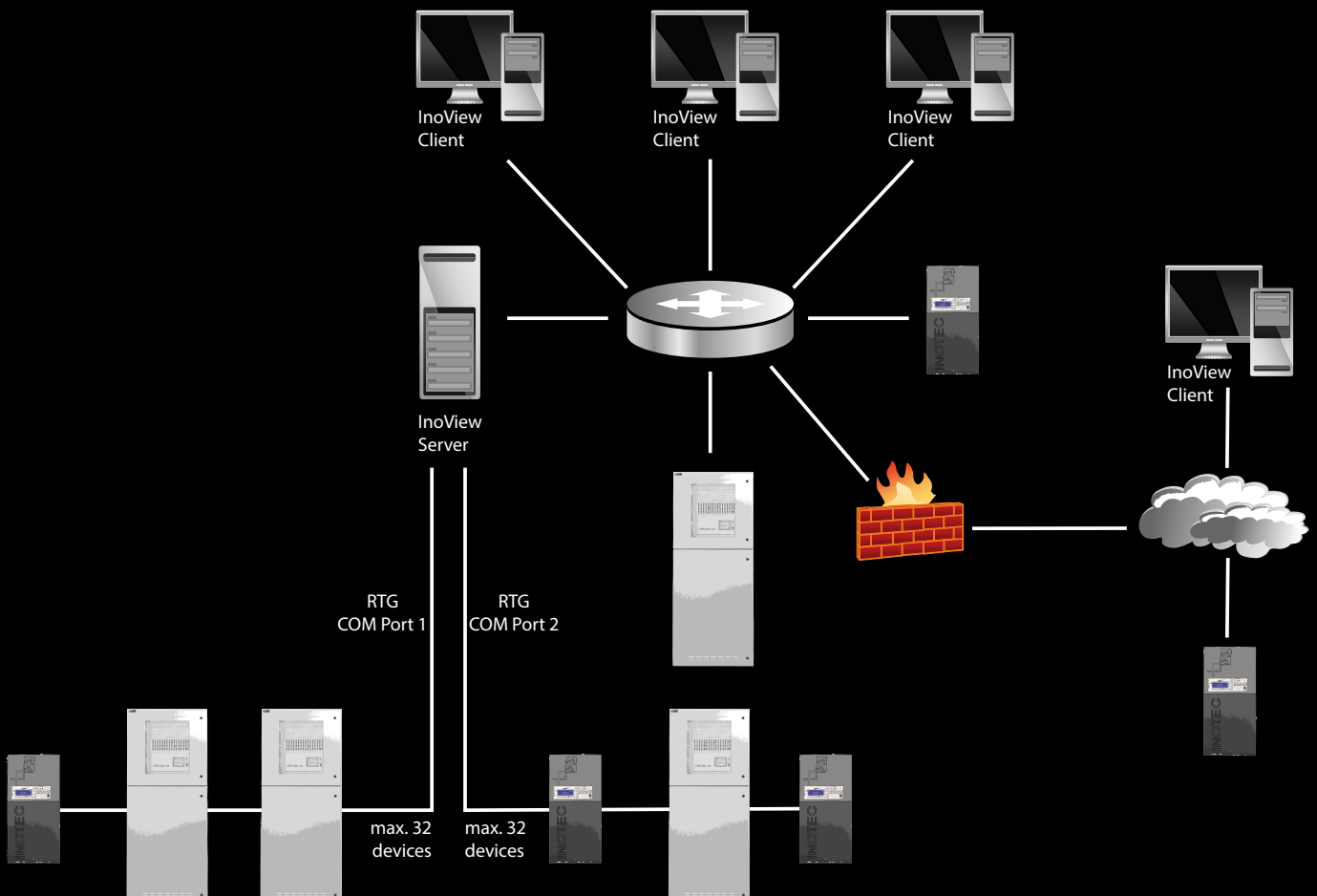


The INOView server components are installed on a physical or virtual server. All users get access via the installed software on their local computers. Multiple users can work simultaneously with this network installation. Several systems are connected to the server via INOTEC RTG-BUS. Simultaneously additional devices are monitored via network.

It's possible to realise a cross-site monitoring via corporate network. This is especially interesting for industrial or logistics companies with multiple locations that favour a centralised monitoring or for the public sector with a central facility management, who is responsible for several locations.

The three core INOTEC RTG-BUS allows a free topology of line- and star- wiring within a total length of 500m. Different device types can be mixed within one line

Typical applications: public sector, hospitals, industrial companies, airports, logistics centres, etc.





# User interface overview

## Clearly structured and easy to use

The customisable interface allows a quick failure localisation.

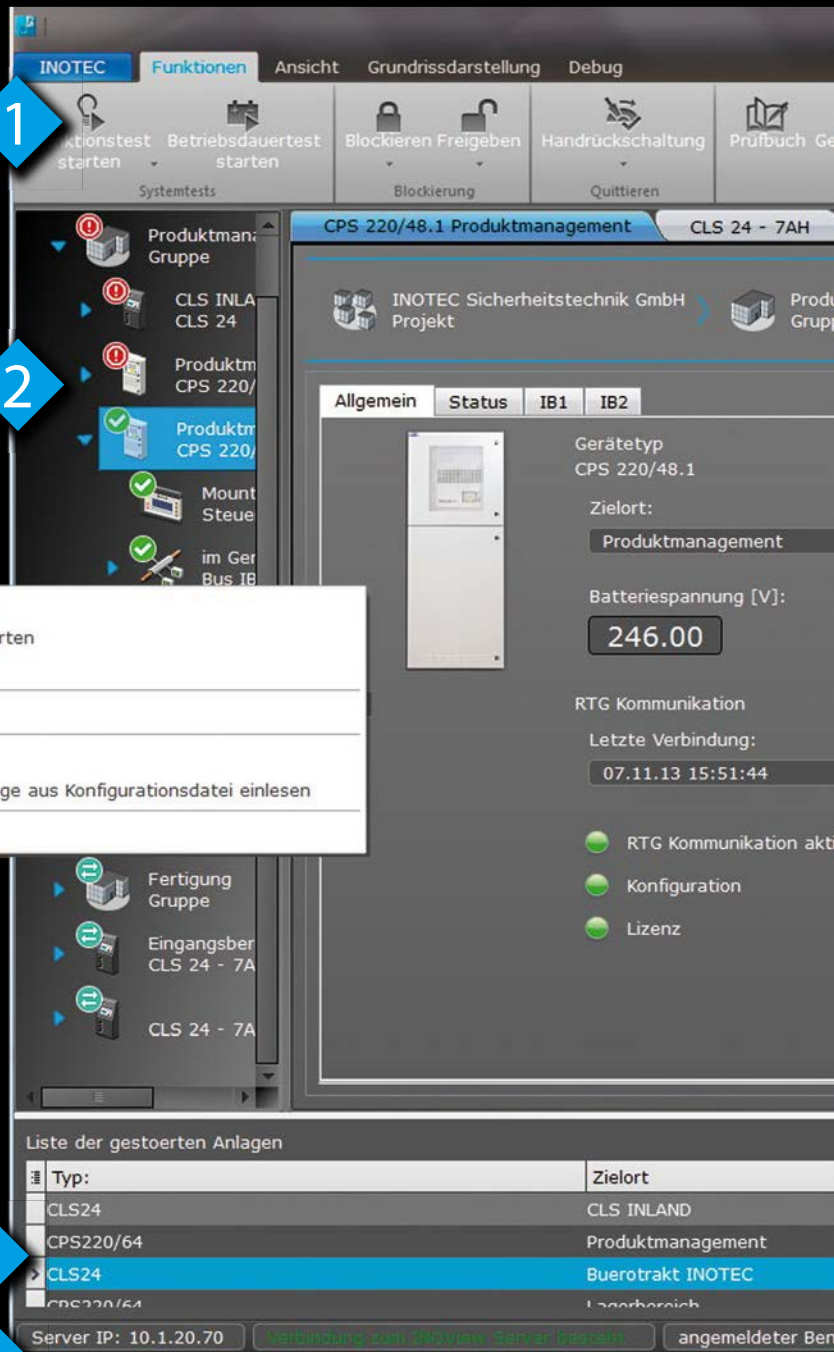
The central element of the user interface is the detail view of the individual systems which can be selected at the tree view menu on the left.

With INOView multiple detail views can be opened in parallel.

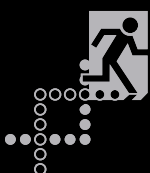
As a simple example, one shows the overall status of a central battery system and another displays the detailed battery information.

A context menu with additional functions opens by right-clicking.

The dialogue device failures directly shows where action is needed. By double-clicking the related system opens in a detail view.



- 1 Toolbar
- 2 Treeview of all registered systems
- 3 Navigation tabs (opened detailed views)
- 4 Detailed system information
- 5 Dialogue device failures
- 6 Status bar
- 7 Context menu
- 8 Navigation
- 9 System status





INOView Client

Gerätestörungen | Steuerteil Einstellungen | Anmelden Abmelden | Benutzerverwaltung | BCS View | Einstellungen | Hilfe

CL S 24 CLS INLAND

Produktmanagement CPS 220/48.1

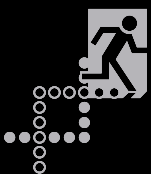
Gesamtzustand: **Betrieb**

Batteriestrom [A]: 0.20

Batteriekapazität [%]: 100.00

Status	gestört seit
Stoerung	30.10.13 09:12:27
Stoerung	07.11.13 12:00:12
Offline	30.10.13 09:12:27
Offline	30.10.13 09:12:27

nutzer: inotec | 07.11.13 15:30:41 Verbindung zum Server hergestellt | 07.11.13 15:52 v1.0



# Floor plan visualisation

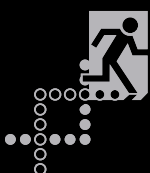
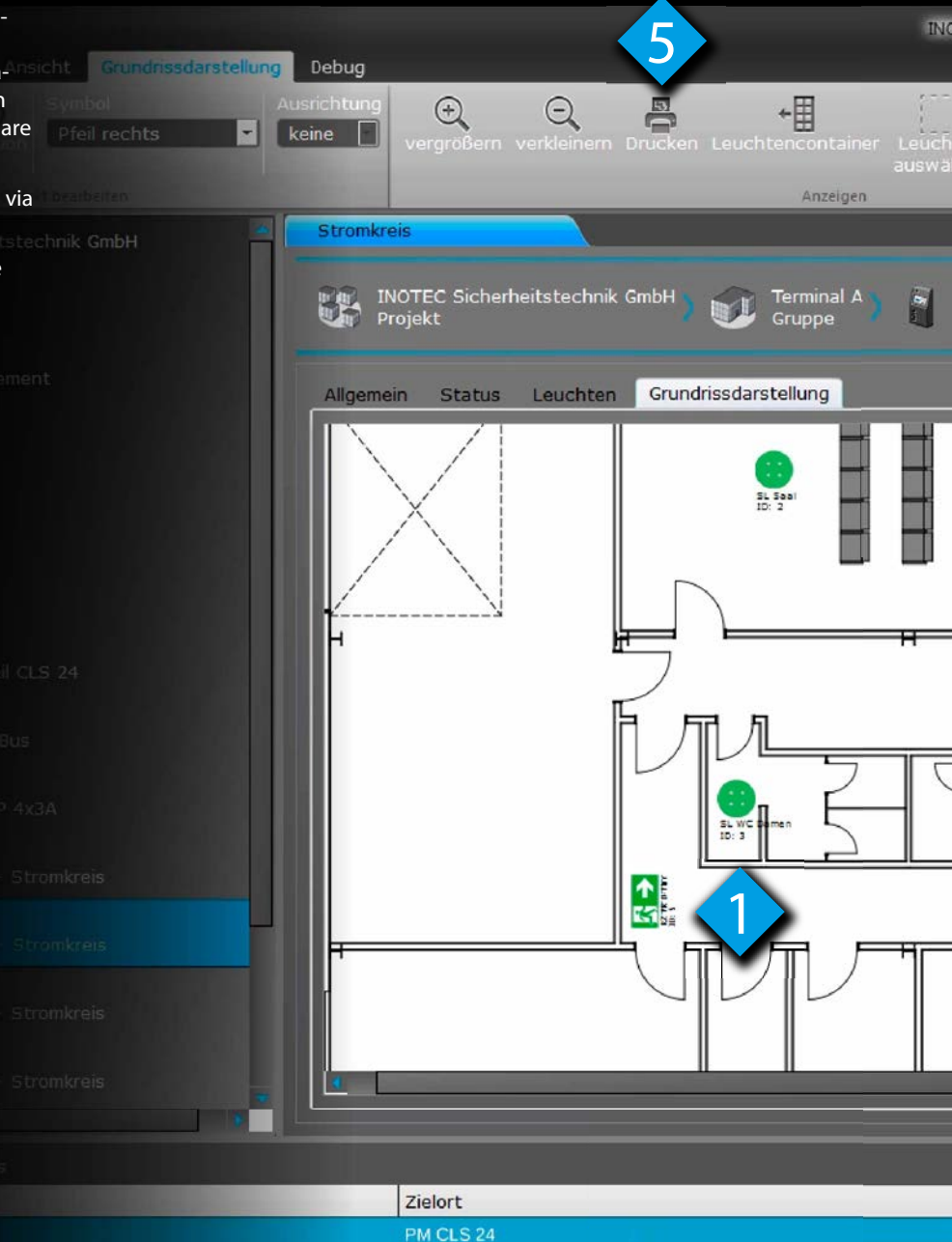
Defect luminaires and their status can be localised quickly in the floor plans. A separate floor plan can be saved for each circuit. The information of the Scalable Vector Graphics, which can be exported from a common CAD programm, are the basis for the vector graphics.

Luminaires can be added, scaled and adjusted via Drag & Drop from the luminaire database.

A print out of the plan view with the luminaire status is also possible.

The module „floor plan visualisation“ can be purchased optionally.

- 1 Position and status of the luminaires
- 2 Luminaire database to add luminaires to the floor plan
- 3 Defect safety luminaire
- 4 Import of floor plans
- 5 Printing of the displayed floor plan



View Client

**4**

Zielort  
Leuchtenadresse

Daten importieren  
Daten exportieren  
Import/Export

Leuchte hinzufügen  
Sonderfunktionen

PM CLS 24  
CLS 24

interner Bus

CP 4x3A

Stromkreis

**3**

SL Eingang Ost  
ID: 1

**2**

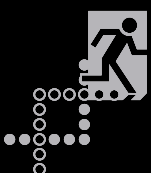
nicht platzierte Leuchten

- ID: 4 SL U-Flur
- ID: 4 SL U-Flur
- ID: 4 SL U-Flur

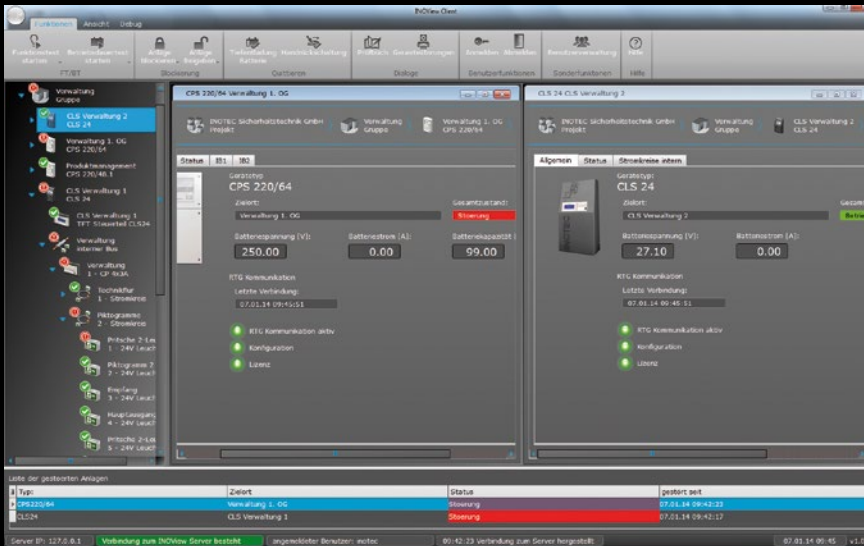
Status	gestört seit
Störung	04.03.16 09:04:56

04.03.16 10:34:37 Verbindung zum INOView Server besteht

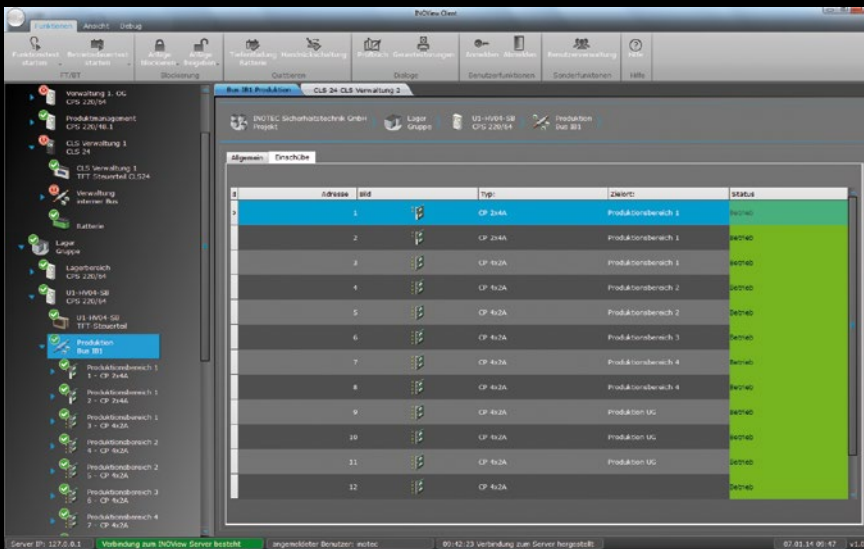
04.03.16 10:54 V2.5



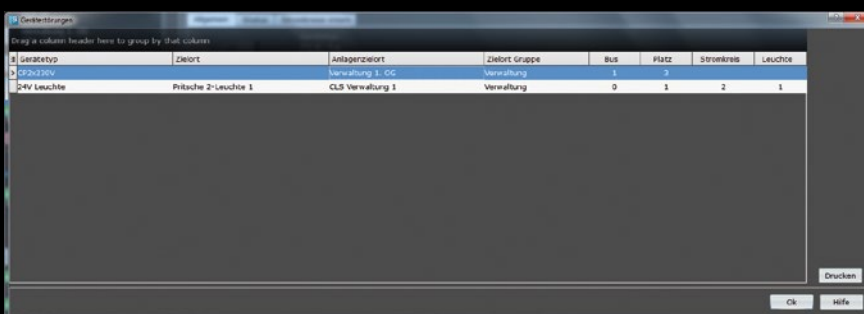
# Analysis, logbook, failure overview



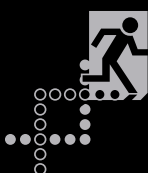
Simultaneous display of several detail views.



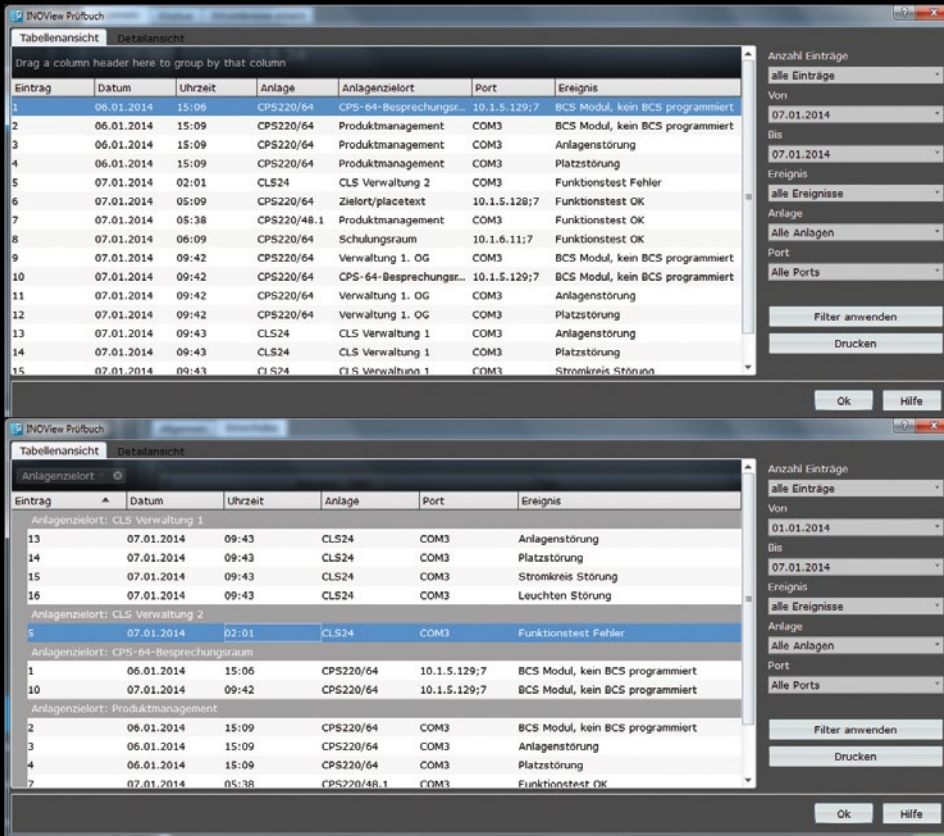
Freely sortable table views. A double-click on an entry opens more details.



The dialogue device failures shows all systems in failure condition. By double-clicking the related detail view opens – troubleshooting in a simple and fast way.



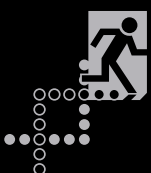
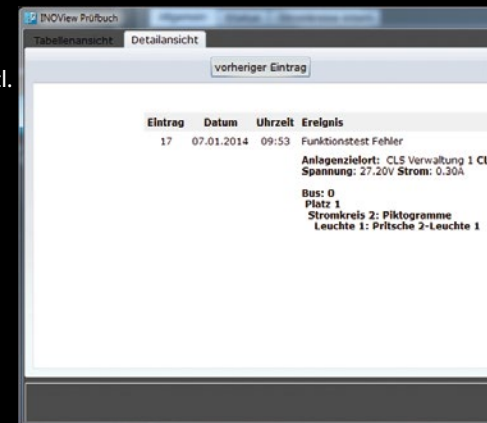




Clear logbook with filter function for all entries. These can be freely sorted within the table. Printing is also possible.

All entries can be grouped and filtered several times by the given columns. For example: Entries can be grouped by device location and events. This leads to simplified troubleshooting.

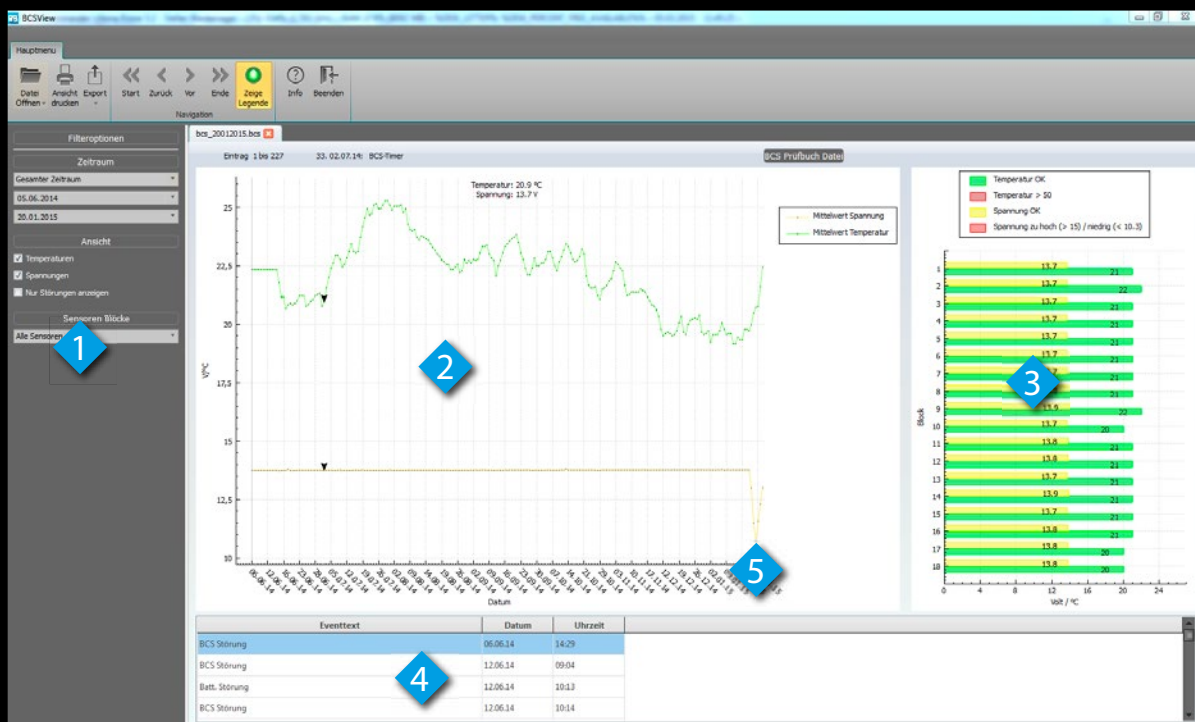
More information can be shown by the detail view. Individual luminaire failures are displayed incl. location texts and can be printed out.



# INOView Battery monitoring

An exact analysis of the recorded data is possible due to the integration of the Battery Control System (BCS) monitoring single battery blocks within the INOView Software.

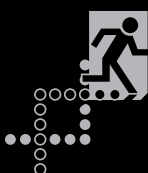
Diagrams visualise the state of the voltage and temperature of the battery blocks. The BCS records the measurements data on a daily basis and before every duration test. To present the information clearly the BCSView-Software is used, which can be directly activated at the INOView-Software.



## User interface overview

- 1 Filtering function
- 2 Battery block temperature-/voltage within a time frame
- 3 Presentation of single values at a specific point of time
- 4 Chart for special incidents
- 5 Voltage drop of the battery blocks

The supported systems need to be connected via network for the usage in combination with the INOView Software.

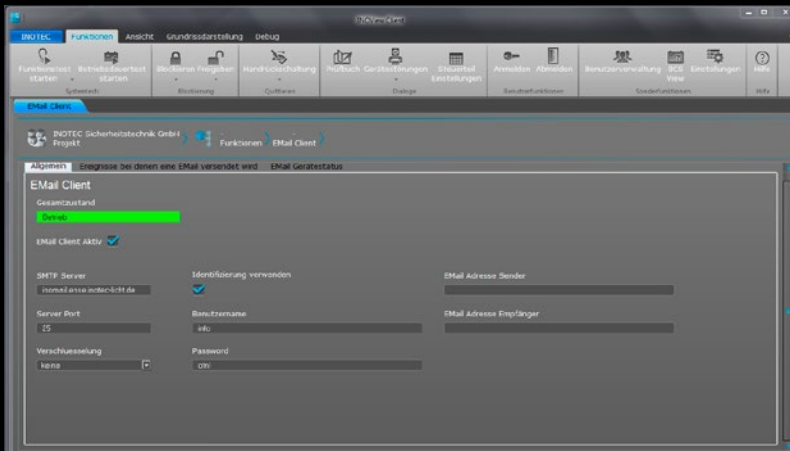


# INOView E-Mail-Notification

With the integrated E-Mail-function the recipient will be automatically informed in case of a failure, power failure or after a function test.

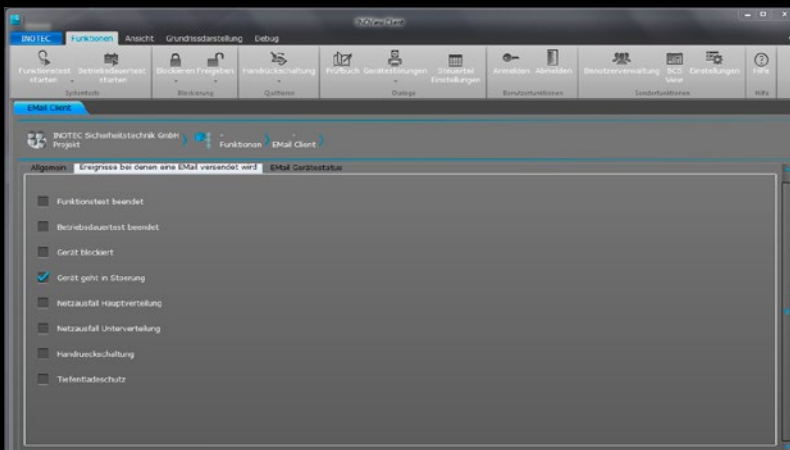


The recipient receives a mail with the required information and can immediately decide, which reaction is necessary.

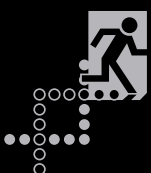


For the E-Mail function a SMTP-Server is required.

Thereby the INOView-Software supports also E-Mail-server with an authentication.



You can precisely define for which incidents of a device, a notification is send via mail. A different option is the daily notification at a fixed time concerning all devices with a noticeable status.



# Everywhere in use

INOView supports you in all concerns, to ensure personal safety and to simplify the maintenance of the emergency lighting systems.

## Schools & Universities

Schools and universities are frequented by hundreds or thousands of people every day. The emergency lighting systems have to be monitored 24/7, to guarantee its correct functionality during hours of operation. The use of INOView as a centralised monitoring system is optimising the tasks of the facility manager, as the emergency lighting systems are often localised in several locations, within one project. Emergency lighting systems can be blocked during hours out of business and can be re-activated for events in the evening. This helps to reduce operating costs and avoids situations of unnoticed battery discharging.



## Transport & Traffic

Airports and train stations are frequented by a huge amount of passengers 24/7. Dangerous events and emergency situations lead to panic reactions very quickly. The emergency lighting system has to be in a very well condition to guide people out of the building in a safe way. Projects like these contain thousands of lighting points, which have to be monitored by a central building management. INOView is demonstrating its strengths by a clear structure in projects like these. Your daily work will be assisted by individual grouping possibilities and a clear overview of system failures, including filter functions.



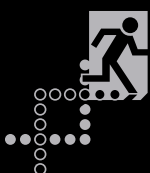
## Public buildings, theatres & meeting areas

Public buildings, theatres and meeting areas are daily used by nonlocal people. Escape routes have to be clearly marked to guide these people out of the building in case of emergency. INOView is your tool to simplify the maintenance of the emergency lighting system and to guarantee the safety inside of the building.



## Logistics & Industry

A central electrical workshop has to take care of the maintenance of several buildings at several locations. This requires a lot of time. The central monitoring by INOView supports you in reducing workload by important information and clearly structured messages. Complexes of buildings or locations can be combined into freely defined groups. Areas with system failures will be highlighted independent of the system types.





Visualisation software INOView, for centralised remote monitoring of INOTEC emergency lighting systems. The client-/server- architecture allows access of multiple PCs within the network. The essential version of INOView includes logbook, failure information, automatic tests and 10 system credits for INOTEC emergency lighting systems.

### System requirements

#### Server:

Operating system: Microsoft Windows 7, Windows 2008 Server, Windows 2012 Server, Windows 10  
 Processor: Intel or AMD  
 Memory (RAM): min. 2GB  
 Interfaces: USB\* , maybe RS 232  
 Network: TCP/IP

#### Client:

Operating system: Microsoft Windows 7, Microsoft Windows 8, Windows 10  
 Processor: Intel or AMD  
 Memory : min. 2GB  
 Network: TCP/IP

\* Required for USB-Dongle

The INOView system credits upgrade is available to monitor additional INOTEC emergency lighting systems. It's possible to purchase single system credits.

### INOView licensing

The INOView software has to be licensed according to the amount of monitored INOTEC emergency lighting systems. The amount of needed system credits depends on the different device types.

Device type	System credits per device
CPS 220/64, CPUS 220/64, CPS 220/48.1, CPUS 220/48.1, CPS 220/48, CPUS 220/48 CPS 220/20	3
CLS 24/CLS 24.1, CLS 24-7Ah	1

### INOView – Essential software package

Art. Nr. 185 405



### INOView – system credits upgrade

Art. Nr. 185 406

### INOView floor plan upgrade

Art. Nr. 185 413



Standard network interface to INOTEC RTG-BUS for connection of INOTEC emergency lighting systems. RJ45 interface for connection to existing ethernet. Suitable for DIN-rail mounting.

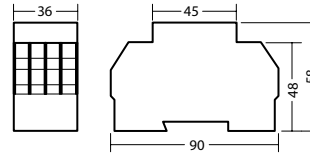
### Technical data

<b>Material:</b>	Polycarbonate
<b>Nominal voltage:</b>	24V ±10%
<b>Power consumption:</b>	1,7 VA
<b>Terminals:</b>	2,5mm <sup>2</sup> single-core 1,5mm <sup>2</sup> multi-core with ferrule
<b>Temperature ta:</b>	-15°C...+40°C
<b>Protection category:</b>	IP20
<b>Protection class:</b>	III
Acc. to DIN EN 55015	

### INOLan.1

Art. Nr. 990 063

DIN rail mounting



RTG interface for connection of up to 32 INOTEC emergency lighting systems to a PC by USB- or serial RS232- interface.

Included in delivery:

1x Power supply

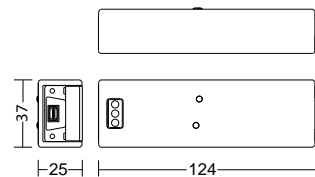
1x Connection cable 1m

1x Driver-CD for RTG – Interface (USB)

### RTG - Interface (USB)

Art. Nr. 851 045

optional accessory



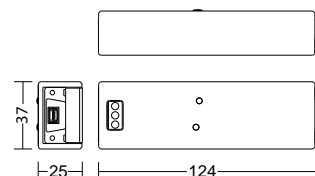
### Technical data

<b>Material:</b>	Polycarbonate
<b>Nominal voltage:</b>	230V ±10%, 50/60Hz
<b>Terminals:</b>	2,5mm <sup>2</sup>
<b>Temperature ta:</b>	-15°C...+40°C
<b>Protection category:</b>	IP20
<b>Protection class:</b>	II/III
Acc. to DIN EN 55015	

### RTG - Interface (RS 232)

Art. Nr. 851 044

optional accessory



Dongle Device Server for integration into a virtual network environment. This component is needed, if the INOView server is installed on a virtual machine. The integration is done by network connection and a software within the virtual machine..

### System requirements

**Operating systems:** 32/64-Bit: Windows XP, Windows 7, Windows 8, Windows Server 2008, Windows Server 2012

**Network interfaces:** 10BaseT/100BaseTX/1000BaseT

**Interfaces:** 2xUSB 2.0

INOView ZLT-Interface to communicate fault reports to the existing BMS. Suitable to connect to a remote switch as well as to loop monitoring. Five potential free contacts programmable for operation, failure (general) and 2 freely. Installed in distribution board, incl. power supply (146030)

### Technical data

**Material:** Polycarbonate

**Nominal voltage:** 230 V  $\pm$  10%, 50/60 Hz

**Terminals:** 2,5 mm<sup>2</sup>

**Temperature ta:** -15 °C ... +40 °C

**Protection category:** IP30

**Protection class:** III

Acc. to DIN EN 55015

The IB-Interface is a communication interface between INOView(180405) and ZLT-Interface(990227).

Included in delivery:

- 1 x Power supply
- 1x Connection cable 1m
- 1 x Driver - CD

### Technical data

**Material:** Polycarbonate

**Nominal voltage:** 230 V  $\pm$  10%, 50/60Hz

**Terminals:** 2,5 mm<sup>2</sup>

**Temperature ta:** -15 °C ... +40 °C

**Protection category:** IP20

**Protection class:** II/III

Acc. to DIN EN 55015

### Dongle Device Server

optional accessory

Art. Nr. 185 050



### INOView ZLT-Interface

optional accessory

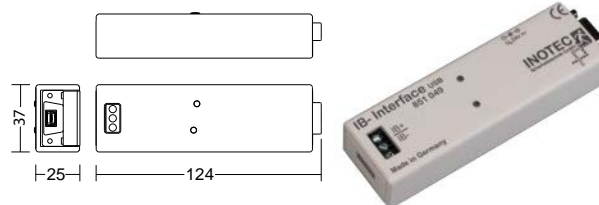
Art. Nr. 990 227



### IB-Interface (USB)

optional accessory

Art. Nr. 851 049





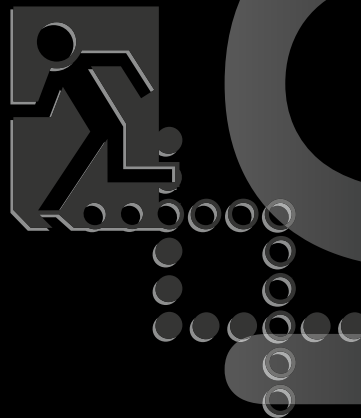
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