

# Installation and Operating Instructions CGLine+ Web-Controller

Target group: Electrical specialists



Powering Business Worldwide

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# 1 Introduction / Foreword

The CGLine+ Web-Controller allows for comfortable and full control and monitoring for up to max. 800 CGLine+ self-contained luminaires or modules. Many useful features are implemented.

The luminaires are connected via a 2 core bipolar buscable, subdivided on 4 or 2 lines (max. 200 luminaires on 4 lines or 400 luminaires on 2 lines).

An integrated webserver allows an easy monitoring of all luminaires over an existing computer network, via a standard web browser, e.g. firefox. Thus a special software is not required and location independent monitoring is possible.

An optional CGLine+ PC-Software allows an comfortable configuration of the CGLine+ Web-Controller via an USB-cable connection.

The following features are available:

- n Housing for DIN rail mounting in a standard distribution cabinet
- n Up to 4 lines with max. 200 luminaires each, in total max. 800 luminaires
- n Integrated webserver for a comfortable monitoring via standard webbrower
- n Integrated mail client for up to 10 recipients, mail events freely selectable
- n Blocking input with differential loop monitoring (1 kOhm)

- n Two free programmable digital inputs
- n Two free programmable relay outputs (changeover contacts)
- n Automatic luminaire search function (no manual addressing required)
- n Automatic function / duration test of all luminaires, assigned into 8 test groups
- n Luminaires with maintained light can be switched off, free selectable (in non-maintained light)
- n 2 x USB ports, 1 x for Backup via USB-stick, 1 x for easy configuration via CGLine+ PC-software
- n Intergrated building layout programming with max. 30 layouts (external software as option)
- n Downloadable logbooks
- n CGVision fully configuration and monitoring software for max. 32 CGLine+ Web-Controller available (as option)

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**! IMPORTANT**

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The CGLine+ Web-Controller is compatible with the older CGLine self-contained system. If one or more CGLine luminaire is connected, the controller switches automatically to CGLine compatibility modus. Some CGLine+ features are not available then.

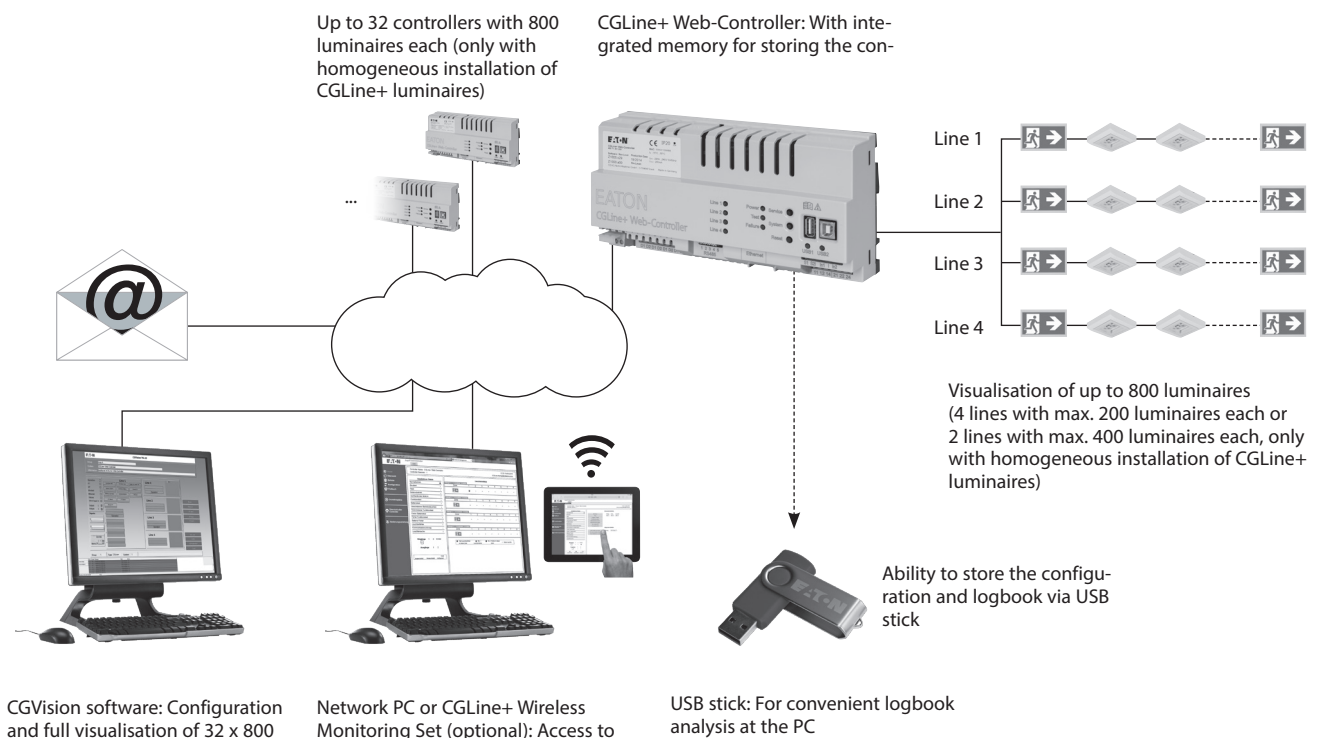
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**! NOTE**

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For setting up the Adaptive Evacuation mode, please read the AE manual.

Fig. 1. Application example



## 2 Safety notes

## 2 Safety notes



### CAUTION

- n The CGLine web interface must be operated in an undamaged and functional state.
- n When carrying out maintenance work to the device the device must be switched off.
- n When carrying out device maintenance, observe national safety and accident prevention regulations and the safety notes in the operating instructions below designated with

## 3 Conformity to standards

Compliant with: EN 60950-1. Developed, manufactured and tested according to DIN EN ISO 9001.

### CYBERSECURITY

This chapter provides guidelines to securely deploy the CGLine+ Web-Controller and minimize the cybersecurity risk to the installer system.

- n Asset identification and inventory: Ensure that the CGLine+ Web-Controller is labelled and inventoried using the Part number and Mac address printed on the product label, and also the IP address configured during the installation of the material and actual firmware version.
- n Restrict Physical access: Ensure that physical access to the CGLine+ Web-Controller is restricted only to authorized user(s). CGLine+ Web-Controller supports the physical access ports RJ-45, USB that can be used to tamper the device. Access to these ports should be restricted to authorized personnel only. Secure the facility and equipment rooms or closets with access control mechanisms such as locks, entry card readers, guards, man traps, CCTV, etc. as appropriate. Monitor and log the access at all times. Before connecting any portable device through a USB port or SD card slot, scan the device to prevent unauthorized access.
- n Restrict Logical access: Access to 'Admin' & 'Service' user accounts should be restricted to authorized personnel only as system configuration can be tampered by abusing these accounts. Ensure password length, complexity and expiration requirements are appropriately set, particularly for all administrative accounts (e.g., minimum 10 characters, mix of upper- and lower-case and special characters, and expire every 90 days, or otherwise in accordance with your organization's policies).
- n Restrict Network Access: Ideally, CGLine+ Web-Controller

should be installed on a segregated network. However, when the CGLine+ Web-Controller is connected to a wider network, make sure that the IP address and MAC address are filtered at the router side, or using a firewall. In addition to this, open only the ports used by the CGLine+ Web-Controller (SMTP as configured, 587 for SMTPS, 443 for HTTPS, and 5000 for OPC communication).

- n Logging and event management: Make sure you log all relevant system and application events, including all administrative and maintenance activities. Logs should be protected from tampering and other risks to their integrity (for example, by restricting permissions to access and modify logs, transmitting logs to a security information and event management system, etc.). Ensure that logs are retained for a reasonable and appropriate length of time. Review the logs regularly. The frequency of review should be reasonable, taking into account the sensitivity and criticality of the CGLine+ Web-Controller and any data it processes. The details how to export the logs are defined in chapter 7.14.
- n Secure maintenance: In case the firmware of the device needs to be updated, you will be contacted by your Eaton local support.
- n Business continuity / cybersecurity disaster recovery: Eaton recommends incorporating CGLine+ Web-Controller into the organization's business continuity and disaster recovery plans. Organizations should establish a Business Continuity Plan and a Disaster Recovery Plan and should periodically review and, where possible, exercise these plans. As part of the plan, important device data should be backed up and securely stored, including the current configuration and documentation of the current permissions / access controls, if not backed up as part of the configuration. The CGLine+ PC can be used to save the configuration of a CGLine+ Web-Controller using the "save file" button in the main page.
- n Decommissioning: It is a best practice to purge data before disposing of any device containing data. Guidelines for decommissioning are provided in NIST SP 800-88. To ensure data is unrecoverable, CGLine+ Web-Controller must be securely destroyed. Method of destruction include disintegration, Incineration, Pulverization, or Melting of the electronic inside the CGLine+ Web-Controller.

## 4 Technical data

Table 1. Technical data

Power supply (typ.)	230 V AC, 50/60 Hz
Power consumption	< 4 Watt standby, < 21 W full load (RMS)
Connection terminals	max. 2.5mm <sup>2</sup> flexible
Permissible ambient temperature	0...+35°C
Storage temperature	-20°C...+70°C
Protection rating	IP 20
Housing type	DIN rail 12 TE
Dimensions	214 x 109,8 x 60,1 mm

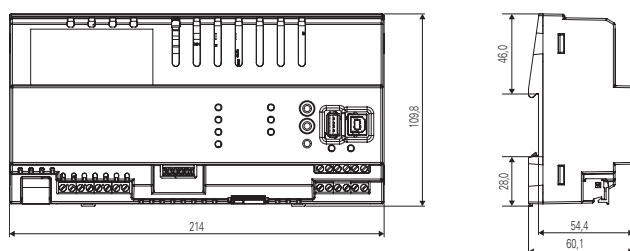


Fig. 2. Dimensional drawing CEAG CGLine+ Web-Controller

### 4.1 Description / application area

For the central visualisation and control of CGLine+ self-contained luminaires with CGVision software or via the integrated web interface with a standard web browser (e.g. Internet Explorer):

- n Complete control and monitoring of up to 800 CGLine+ self-contained luminaires on CGVision (optionally available). In CGLine mode max. 400 CGLine luminaires.
- n Integrated web server for simple visualisation via standard web browser
- n Internal logbook on SD memory card
- n Two zero-potential signal contacts, freely programmable
- n Blocking input with differential loop supervision
- n E-mail program integrated in Web server
- n Two option inputs, freely programmable

## 5 Installation

Please comply with safety regulations and device safety legislation, as well as valid technical regulations when setting up and operating electrical operating equipment.

### 5.1 Assembly

Observe impermissible temperatures at the installation location during mounting. The permissible ambient temperature must not exceed +35°C. The interface is mounted on a DIN rail (12 TE).

### 5.2 Electrical connections, push buttons and LED displays

#### 5.2.1 LED displays

9 coloured LED displays are located on the front plate and 2 LED displays on the ethernet connection with the following functions:

- n **1** Line 1 to Line 4:
  - n Signalling of sending or receiving data between the CGLine+ Web-Controller and the CGLine+ self-contained luminaires. A green LED signals the receipt of data at the Web-Controller, and a yellow, flashing LED the sending of data to the luminaires.
- n **2** Power LED:
  - n Lights up green when the controller is connected to the supply voltage 230V/AC.
- n **2** Test LED:
  - n Flashes green rapidly when the function test for at least 1 luminaire runs
  - n Flashes green slowly when a duration test for at least 1 luminaire runs
- n **2** Failure LED:
  - n Lights up red when at least 1 random fault is pending, e.g. luminaire battery defective
- n LED USB1: **4**
  - n Flash yellow during data transmission between the Web-Controller and a USB device.
  - n Off when no data transmission in progress.
- n LED USB2: **5**
  - n Flash yellow and green during data transmission.
  - n Solid green when connected but no traffic in progress.
- n LED display on the LAN (ethernet connection): **9**
  - n Green = flashes with traffic
  - n Yellow = link or network connection

## 5 Installation

### 5.2.2 Push button functions

The CGLine+ Web-Controller has 3 push buttons on the front plate:

#### Service button **3**

The service pin enables a luminaire search for subsequently installed luminaires, thus saved luminaires will not be deleted. Also possible via the service pin to start a function test for luminaires on all lines.

Functional method:

- n Press the service pin > 1 sec. but < 3 sec.: function test started for all luminaires
- n Press the service pin > 6 sec.: „only new luminaires“ search started

Fig. 4. Electrical connections, push buttons and LED displays



- 3** Push buttons:  
Service = e.g. starting a FT  
System = establish a USB connection on USB2  
Reset = hardware reset
- 4** USB1 host for connecting a USB stick
- 5** USB2 device for connection to PC
- 6** PE/N/L 230V 50/60Hz
- 7** Connection CGLine+ bus line 1-4
- 8** RS485, currently not in use
- 9** LAN (RJ45) with LED displays:  
Yellow = Link; Green = Traffic
- 10** S1/S2 = Block input  
In1, In2 = 2 x digital inputs  
11, 12, 14, 21, 22, 24 = 2 x relay outputs



### System button <sup>3</sup>

The system button enables the CGLine+ Web-Controller to be connected to a PC. If pressed for ~ 3 seconds, the green USB2 LED turns on and an external storage from Windows will be detected. An access via PC software will be possible now. To remove the controller the following steps are required:

1. Remove external hard drive via windows
2. Press system button for 3 seconds, green USB2 LED will turn off



Fig. 3. Connecting the controller to a laptop with CGLine+ PC-Software via USB A-B

### Reset button <sup>3</sup>

The reset button resets the CGLine+ Web-Controller (not factory default). For this purpose, the button must be pressed and held for >1 second.

## 5.2.3 Connections

### 230 V/AC <sup>6</sup>

Connection terminals for power supply 230 V/ AC with 50/60 Hz.

### CGLine+ Bus: <sup>7</sup>

The Web-Controller is compatible to the old CGLine technology. If one or more CGLine luminaires are connected, the CGLine compatible mode is active. Following luminaires can be connected:

Table 2. Max. number of luminaires to be connected

Line No.	CGLine	CGLine+	
		4 lines	2 lines
1	100	200	400
2	100	200	400
3	100	200	-
4	100	200	-
Total	400	800	800

Polarity D1/D2 to the luminaires must not be observed. Cable routing for CGLine bus: 2-core bus line, unshielded, free bus topology possible.

Table 3. Cable length/line

Cross-section	Length	Total lines
0.5 qmm	260 m	660 m
1.0 qmm	520 m	1320 m
1.5 qmm	800 m	2000 m

Table 4. Electrical data/line

Power supply bus	25 V
Max. permissible voltage drop	6 V
Bus current	300 mA

### NOTE

In case of a communication failure with a luminaire please check the following:

1. Check the proper connection of the bus line at the luminaire's connector
2. Check the correct bus voltage at the luminaire (see table 4.)
3. In case the voltage is correct and the communication failure still exists: Check the bus line resistance which shouldn't exceed 32 Ohm. For that please disconnect the relevant line from the web-controller, apply a short cut between the bus contacts at the affected luminaire and measure the resistance at the other end of the line.

### RS485 <sup>8</sup>

No function. Only for french market.

### LAN connection <sup>9</sup>

Ethernet connection via RJ45 socket. A LAN patch cable must be used for direct connection of a PC/notebook.

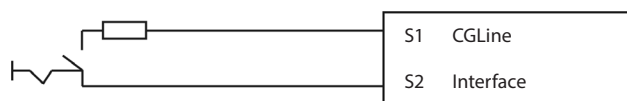
### Blocking input (S1/S2): <sup>9</sup>

All connected luminaires can be blocked via the blocking input, meaning the luminaires are switched off and the emergency light function deactivated, for example for idle operating times.

Connection is via a key switch or relay (e.g. alarm system). To guarantee reliable operation from short-circuit or interruption of the blocking line, this input is equipped with differential loop monitoring (static current), meaning a 1kOhm resistance must be integrated for blocking that defines the static current.

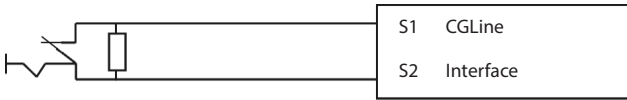
Connection example:

With closer contact



With opener contact

## 6 First commissioning and modifying network settings



Resistor must be connected next to the switch.

### Option inputs (In1/In2):

Programmable digital inputs. The inputs are activated by bridging of both contacts of In1 or In2.

The following functions can be freely assigned to the digital inputs:

- Rest order
- Maintained Light ON/OFF per Line
- Start function test
- Stop test
- External failure

### Relay outputs:

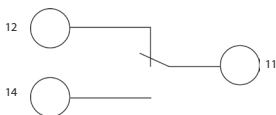
The CGLine+ Web-Controller also has 2 freely programmable relay outputs each with a change-over contact.

Programmable functions:

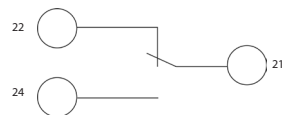
- At least one luminaire failure
- Three consecutive luminaire failure
- Communication failure
- Battery operation
- Function test active
- Duration test active
- Charging failure
- Test failure

### Assignment:

#### Relay 1:



#### Relay 2:



### USB connections:

The CGLine+ Web-Controller has 2 USB connections: 1 x USB A host and 1 x USB B device.

#### USB1 (Type A host):

A standard USB storage stick can be connected to this USB port to save the current configuration and the logbook to the USB stick.

#### USB2 (Type B device):

This USB connection enables connection of the CGLine+ Web-Controller to a standard PC. Controller functions can be programmed via the PC and a configuration software, e.g. luminaire configurations. The PC configuration software is available optionally.

## 6 First commissioning and modifying

## network settings

The network settings of the Web-Controller can be modified by the CGLine+ PC software or via web browser. The following procedure describes the setup via web browser.



### NOTE

For correct perform of the duration test and function test the date and the time must be adjusted (see chapter 6.5).

### 6.1 Factory default network settings

The CGLine+ Web-Controller is supplied as standard with the fixed IP address 192.168.1.200. Operation via DHCP (dynamic IP address assignment) is possible but not factory-activated.

Because typical company networks only permit own-assigned IP addresses, we recommend configuring network settings via direct connection to a PC, e.g. a notebook.

### 6.2 Preparing the PC for configuration

It is mandatory to observe the following:

- For direct connection from the CGLine+ Web-Controller to a PC, a crossover cable is required.
- The devices must be in the same subnet, meaning the network card of the PC must be set to 192.168.1.xxx (not equal to 200), e.g. 192.168.1.50 (subnet to 255.255.255.0).
- Settings for gateway and DNS must not be taken into account with a direct connection.

Connection example for direct connection:



### PC network setting:

To modify the network settings of the PC open the system control

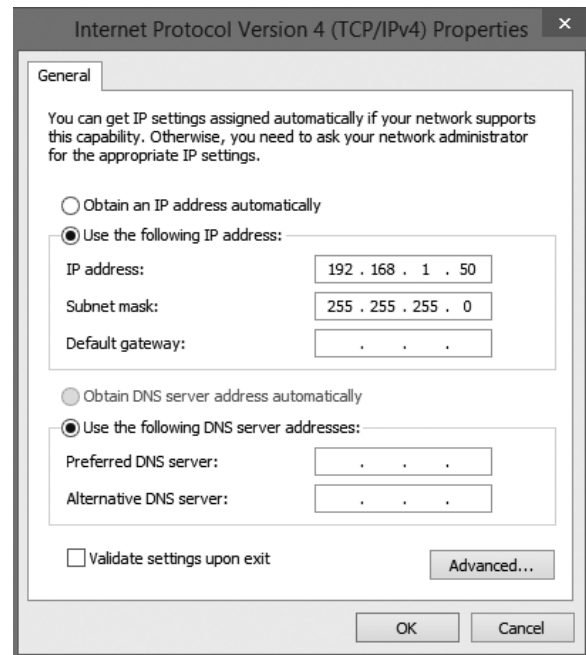
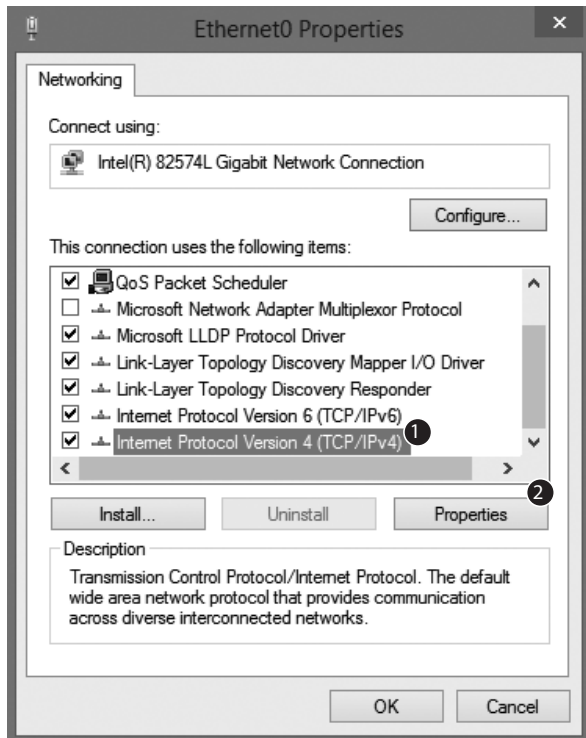
Network and release centre



## 6 First commissioning and modifying network settings

Modifier adapter settings  
Right mouse click on "LAN connection"  
Properties.

The following screen is displayed:



Usually the network card is on DHCP, i.e.  
"Automatically reference IP address"

The following screen is displayed:

Mark the entry Internet protocol version 4 **1**, then continue with "Properties" **2**.

Modify the entry to "Use the following IP address" and specify the following values for the IP address and the subnet mask (displayed automatically):

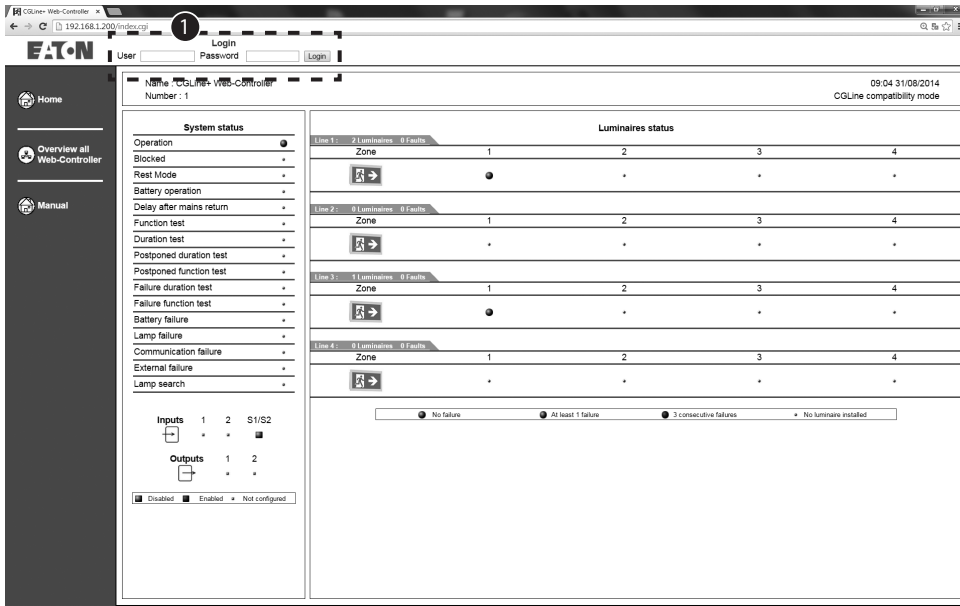
IP address: 192.168.1.50.

Subnet mask: 255.255.255.0.

Clicking on OK assumes the settings so that the web page of the CGLine+ Web-Controller can now be opened via any web browser, e.g. Firefox.

## 6 First commissioning and modifying network settings

### 6.3 First access to the CGLine+ webserver

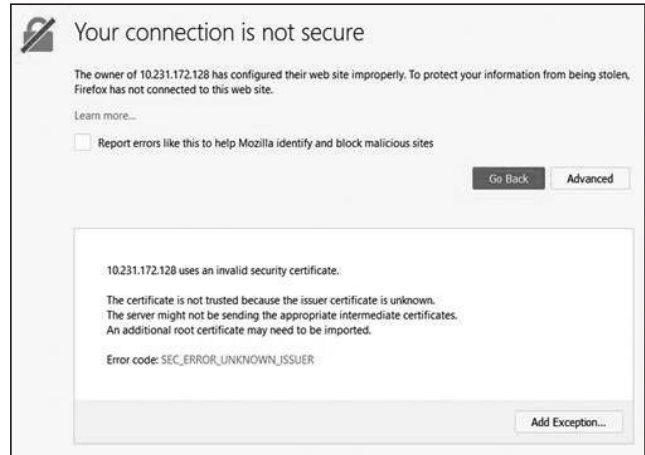
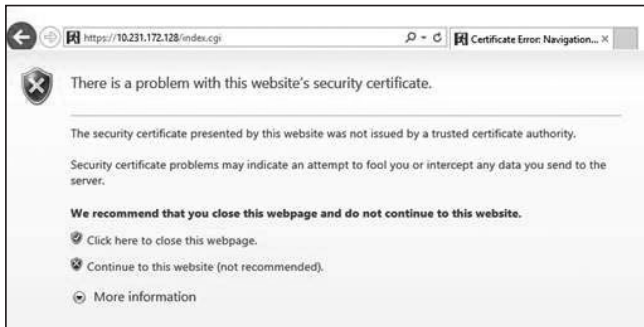


Open a web browser and enter the IP address "192.168.1.200" into the address bar. The start screen of the CGLine+ Web Controller opens.

The screen shows an overview of the installed CGLine+ system with sum status information.

To have access to the submenus, a login **1** is required.

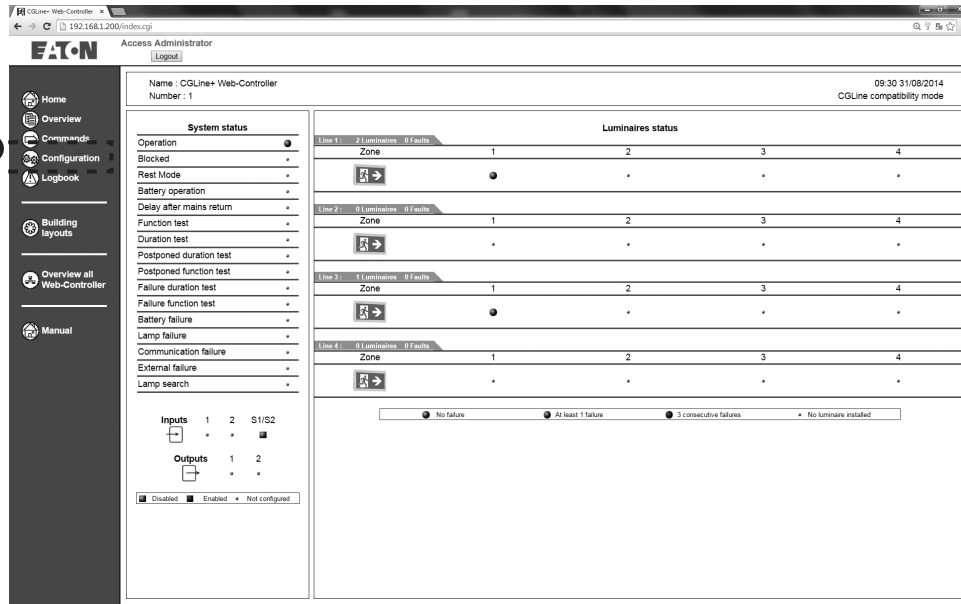
Before accessing the web server, two security pages are displayed on the browser by security protocols. The following web pages appear:



Click on Continue to this website on the first page.  
Click on Advanced on the second page, and then on Add Exception.

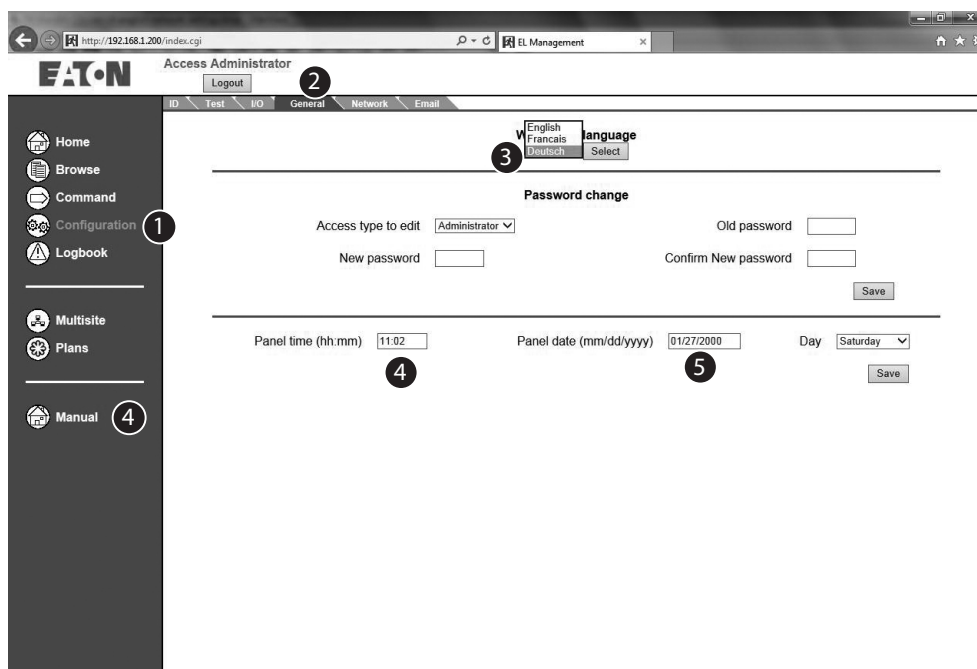
### 6.4 Login to the CGLine+ webserver

To setup the networks settings to the IT pretendings, it is necessary to log in as „Admin“ with factory default password “EATON”,



The submenus appear. In the submenu „configuration“ ①, it is possible to change the network settings.

### 6.5 Modifying of the language, date and time

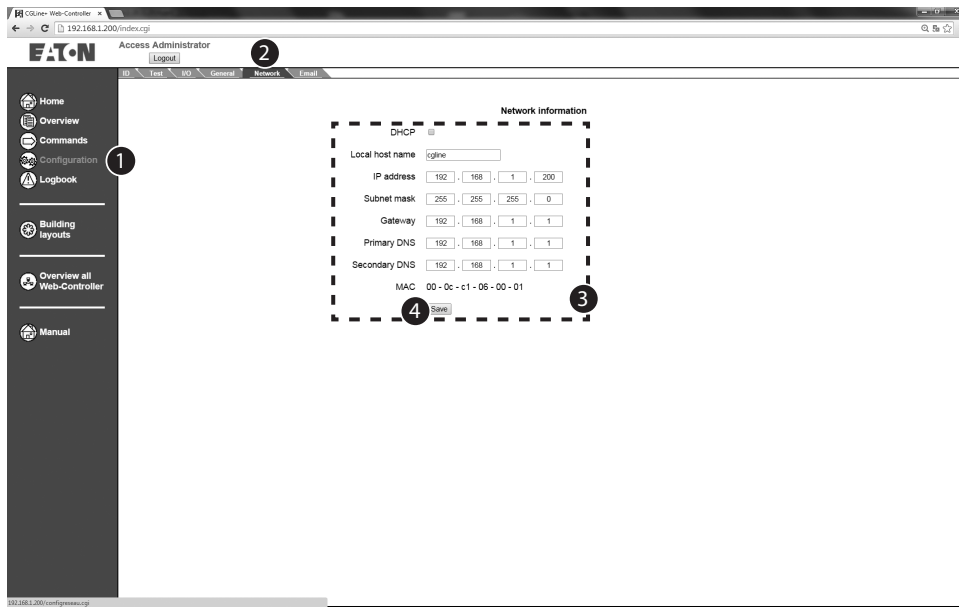


To change the language to English please click on “Configuration” ① in the register “General”. ② The language “English” can now be selected in the top selection field ③. Note: It is recommended to change passwords after commissioning to prevent unauthorized use.

To change the date and time, go to „Configuration“ ① in the register „General“ ②. In the “Time” field, enter the system clock time (format SS:MM) ④. In the “Date” field please enter the Date (format MM/DD/YYYY) ⑤.

## 6 First commissioning and modifying network settings

### 6.6 Modifying of the network settings



The network settings of the CGLine+ Web-Controller can be modified on the network tab **2** in the configuration menu **1**. Operation via DHCP (dynamic address assignment) and DNS (addressing via the names) is possible.

The CGLine+ Web-Controller is supplied with a factory-set static IP address of 192.168.1.200 **3**. Operation via DHCP is possible but in this case it is recommended to select static DHCP address assignment or to work with DNS and a fixed host name.

The new network settings are adopted via "Save" and following rebooting **4** the controller can then be accessed via its new settings.

The CGLine+ Web-Controller can now be integrated in the customer's intranet. The access from any PC workstation in the intranet via a standard web browser is possible now.

## 7 Common operation of the web screens

### 7.1 „Home“ start screen

The screenshot shows the EATON CGLine+ Web-Controller interface. At the top, there is a login form with a 'Login' button and a 'User' field. Below the login form, the system name 'CGLine+ Web-Controller' and number '1' are displayed, along with the date and time '10:55 31/08/2014' and 'CGLine compatibility mode'. The main content area is divided into two sections: 'System status' and 'Luminaires status'. The 'System status' section contains a list of tests and their current status, such as 'Blocked', 'Rest Mode', 'Battery operation', 'Delay after mains return', 'Function test', 'Duration test', 'Postponed duration test', 'Postponed function test', 'Failure duration test', 'Failure function test', 'Battery failure', 'Lamp failure', 'Communication failure', 'External failure', and 'Lamp search'. The 'Luminaires status' section displays a table for four lines, each with four zones, and a legend for failure types: 'No failure', 'At least 1 failure', '3 consecutive failures', and 'No luminaire installed'.

After entering the new IP address into the address bar of a web browser, the Home start screen is displayed with complete status display of the single battery system and the sum status of the zones. A login ① with password is required to navigate on the webpages.

2 Logins are prepared in factory default as follows:

User: Admin  
Password: EATON

User: User  
Password: GUEST

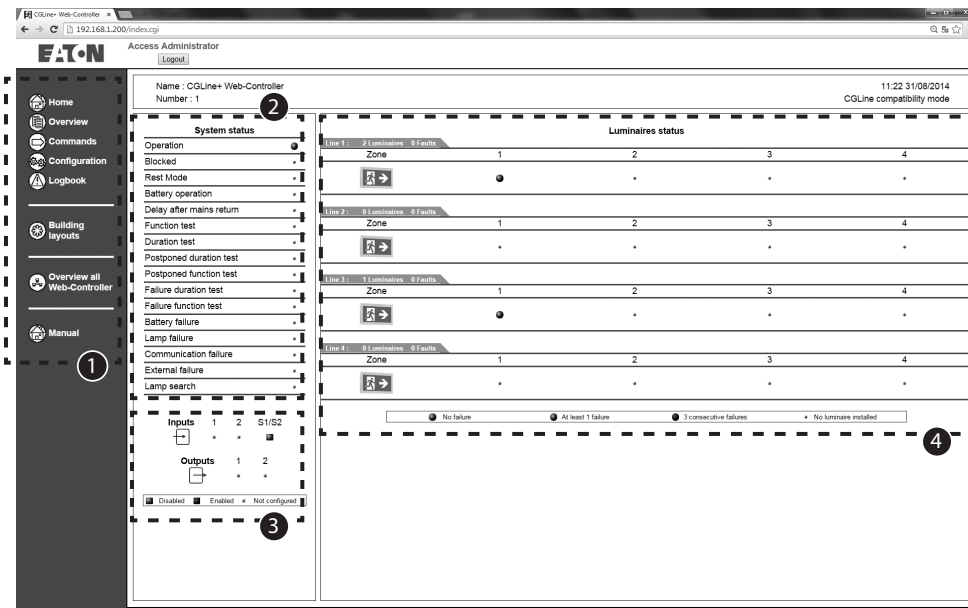
The Admin-Account allows full access to the CGLine+ Web-Controller, e.g. start function test. The User account allows only access for monitoring the status of the controller and connected luminaires. It is recommended to change the passwords for security reasons. This is described in chapter 7.11 General device settings.

Note: In case of inactivity the system will automatically logout after 15 minutes. A new login will be necessary.

It is recommended to share the password only to people that need it, and to restrict the use of the Admin password.

## 7 Common operation of the web screens

### 7.2 Start screen after registration



After the login the navigation menu appears on the left side (1):

- n Home: The start screen is accessed via Home at any time following registration
- n Overview: Enables a view of all installed and faulty luminaires (all/according to zone)
- n Commands: This menu enables commands to be sent to the luminaires, e.g. FT start
- n Configuration: General settings for the CGLine+ Web-Controller, e.g. IP settings
- n Logbook: Displays the last 100 events of the inspection book on the SD card
- n Building layouts: Displays luminaires in layouts for each zone
- n Overview all Web-Controllers: Displays further installed CGLine+ Web-Controllers in an overview

(2): Common status display of complete system, e.g. function test = min. 1 luminaire is in function test

(3): Status display of two inputs and relay outputs

(4): Display of:

- n Lines 1 and 2 with status display for each zone 4 to 16
- n Lines 1 to 4 with status display for each zone 2 to 8.

Status display zone:

- n Green = all luminaires in normal operation
- n Yellow = min. 1 luminaire faulty
- n Red = min. 3 luminaires faulty, e.g. lamp failure

### 7.3 Overview of all faulty luminaires (complete overview)

L	Z	B	ID	Category	Type	Information	Attached at	Next test	Luminaire position
01	01	001	ABC003	BAES	EB-LED CGLine-G	Guided led 18811 1-8 n/D CGLine+ EXIT PR	27/05/14 10:08	01/01/15 18:00	

Example shows one luminaire failure with following information:

- n Luminaire in Line 1
- n Luminaire in Zone 1
- n Luminaire address 1 (Lum1 in Zone)
- n Category: Exit sign
- n Type: EB LED CGLine
- n Information text (max. 20 chara.)
- n Batteryfailure
- n Luminaire in „maintained light“
- n Luminaire was added in the Web-Controller at this date
- n Next FT or DT is on 01/01/2015 at 6:00 p.m.
- n With click on the magnifying glass, it is possible to enter to the building layout picture, if it is pre-

The menu “Overview” ① and the tab “Overview luminaire failure” ② display all luminaires with a fault ③:

- n L = line no. 1-4
- n Z = zone 2-16
- n B = luminaire address 1-400
- n ID = 6-digit hex address for the luminaire, e.g. FE18AC
- n Category = category of the luminaire type (SL= Safety luminaire, RZ= Exit sign)
- n Type = luminaire type, e.g. Guided SL
- n Information = additional text for information which is entered in the CGVision or CGLine+ PC software

- ④:
- Absent = communication fault to the luminaire
  - Safety Bulb = lamp error
  - Battery = battery or charge error
  - White clock = FT failure
  - Blue clock = DT failure
  - i = luminaire operation mode

- ⑤:
- Discover Date = date when the luminaire was detected by the Web-Controller
  - Next test = next automatic FT or DT
  - Luminaire position = target designation of luminaire



## 7 Common operation of the web screens

### 7.4 Overview of all faulty luminaires for each zone

The screenshot shows the Eaton CGLine+ Web-Controller interface. The left sidebar contains a navigation menu with items: Home, Overview, Commands, Configuration, Logbook, Building layouts, Overview all Web-Controller, and Manual. The top navigation bar includes 'Access Administrator' and 'Logout'. The main content area is titled 'Zone overview' and features a 'Line' dropdown menu (3) and a 'Zone' dropdown menu (2). Below these are several status indicators: Communication failure, Lamp failure, Battery failure, Failure function test, Failure duration test, and Luminaire state. A table displays the following data:

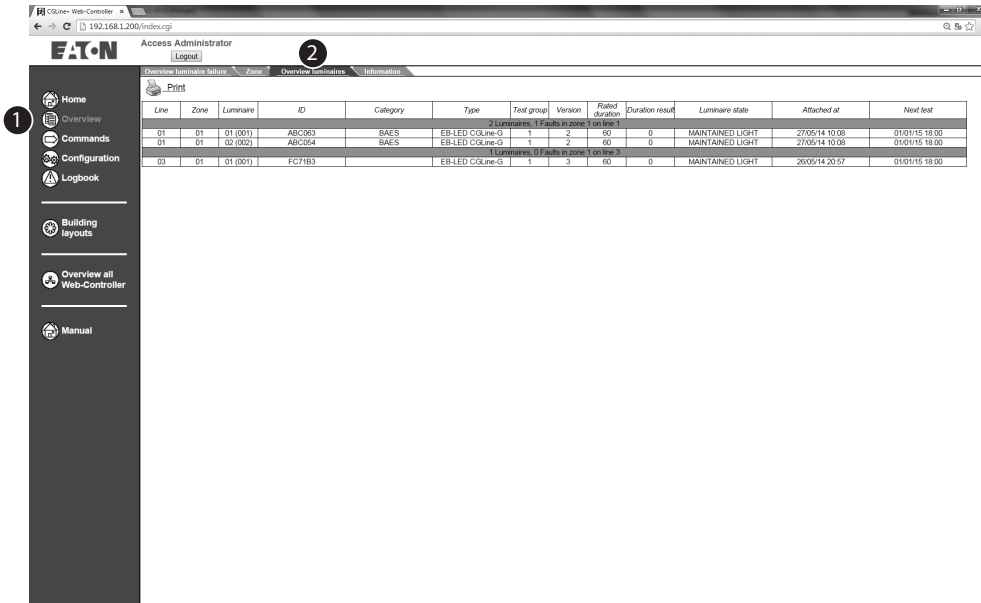
L	Z	B	ID	Category	Type	Information	Attached at	Next test	Luminaire position
01	01	001	ABC003	BAES	EB-LED CGLine-G	5x1x4x1-LED 10811 1-8 N/D CGLine+ EXIT PR	MAINTAINED LIGHT	27/05/14 10:08	01/01/15 18:00

All luminaires with a fault in a zone are displayed in the "Overview" menu ① and the "Zone" tab ②.

Via the drop down menus ③ the desired line and zone are selected.

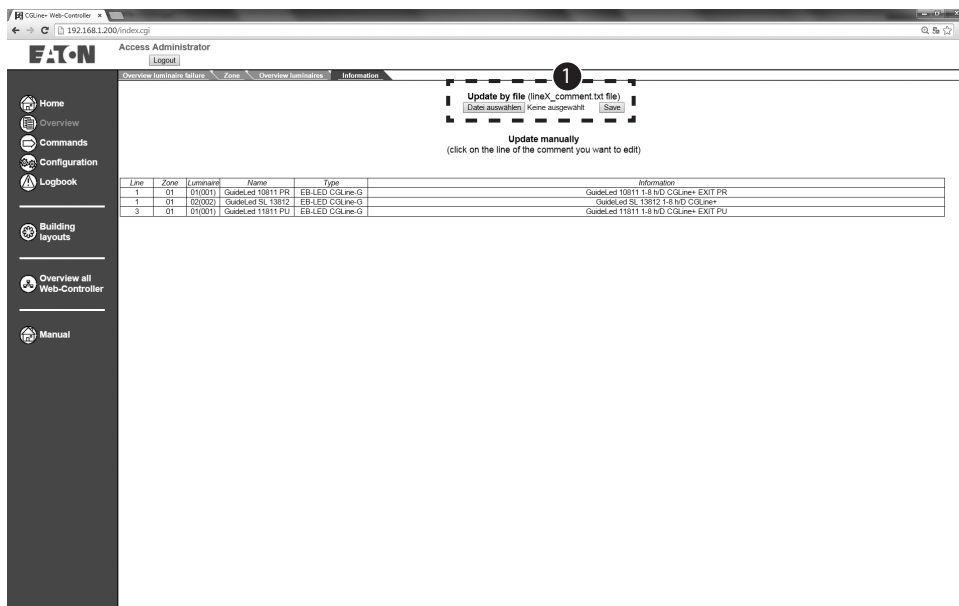
The luminaire list is updated via „Send“

## 7.5 Overview of all luminaires



The menu „Overview“ ① and register „Overview luminaires“ ② shows all installed luminaires on the CGLine+ Web-Controller.

## 7.6 Information (information text of the luminaires)



This screen shows the name with max. 20 characters and information text with max. 200 characters (e.g. destination text) of each luminaire.

These text can be edited by:

- n CGLine+ PC software
- n CGVision
- n With click on the text on this screen
- n Import of an text-file (see ①)

## 7 Common operation of the web screens

### 7.7 Configuration change of luminaires addresses

For changing the configuration of luminaires addresses, please follow the steps below:

1. Click on the tab **Luminaires**. The table with all the luminaires installed appears.

Access Administrator

Logout

Overview luminaire failure Zone Overview luminaires Information Luminaires

Line 3 Select

Update manually  
(click on the line you want to edit)

Save

Line	Zone	Luminaire	ID	Type	Information
3	01	01(001)	BA00D8		MAIN ENTRANCE
3	01	02(002)			
3	01	03(003)			
3	01	04(004)			
3	01	05(005)			
3	01	06(006)			
3	01	07(007)			
3	01	08(008)			
3	01	09(009)			
3	01	10(010)			
3	01	11(011)			
3	01	12(012)			
3	01	13(013)			
3	01	14(014)			
3	01	15(015)			
3	01	16(016)			
3	01	17(017)			
3	01	18(018)			
3	01	19(019)			
3	01	20(020)			
3	01	21(021)			
3	01	22(022)			

2. Click on the line you want to modify and choose the new configurations.

3. Click on **Save** for taking into account the changes. ①

Access Customer service/Factory

Logout

Overview luminaire failure Zone Overview luminaires Information Luminaires

L	Z	B	ID	Test group	Category	Name	Information
1	1	2	BB74EE	1	BAES		

① Save Delete

4. Click on **Save** for finalizing the modifications. ②

Access Administrator

Logout

Overview luminaire failure Zone Overview luminaires Information Luminaires

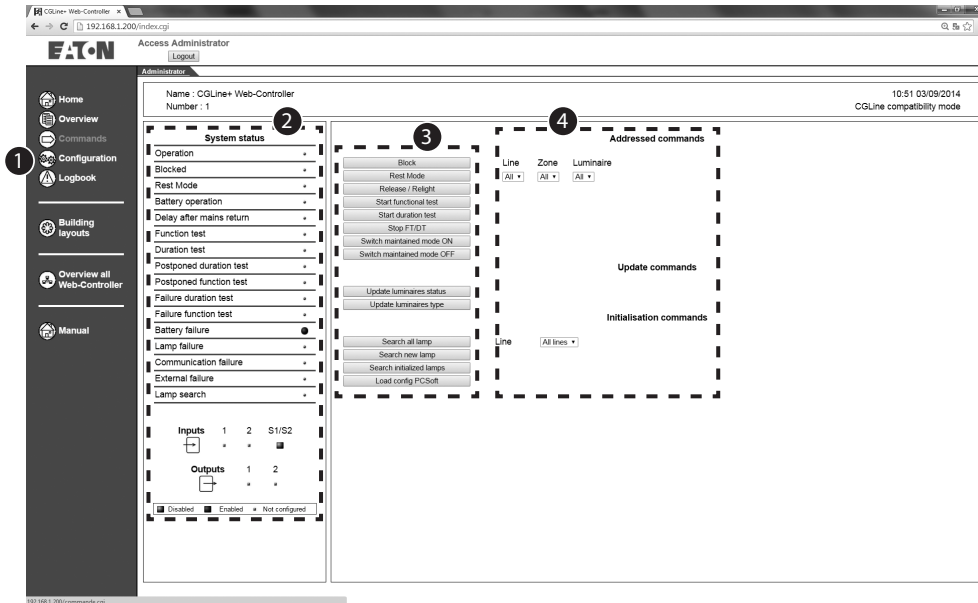
Line 3 Select

Update manually  
(click on the line you want to edit)

Save

Line	Zone	Luminaire	ID	Type	Information
3	01	01(001)	BA00D8		MAIN ENTRANCE
3	01	02(002)			
3	01	03(003)			
3	01	04(004)			
3	01	05(005)			
3	01	06(006)			
3	01	07(007)			
3	01	08(008)			
3	01	09(009)			
3	01	10(010)			
3	01	11(011)			
3	01	12(012)			
3	01	13(013)			
3	01	14(014)			
3	01	15(015)			
3	01	16(016)			
3	01	17(017)			
3	01	18(018)			
3	01	19(019)			
3	01	20(020)			
3	01	21(021)			
3	01	22(022)			

## 7.8 Switching command screen



In the menu "Commands" **1** all commands can be sent to CGLine+ single luminaires. It is possible to send the commands to all luminaires or to one line, zone or even to a single luminaire.

**2**: Status display of the total system and the pot.-free IN/OUT puts.

The following commands **3** can be set:

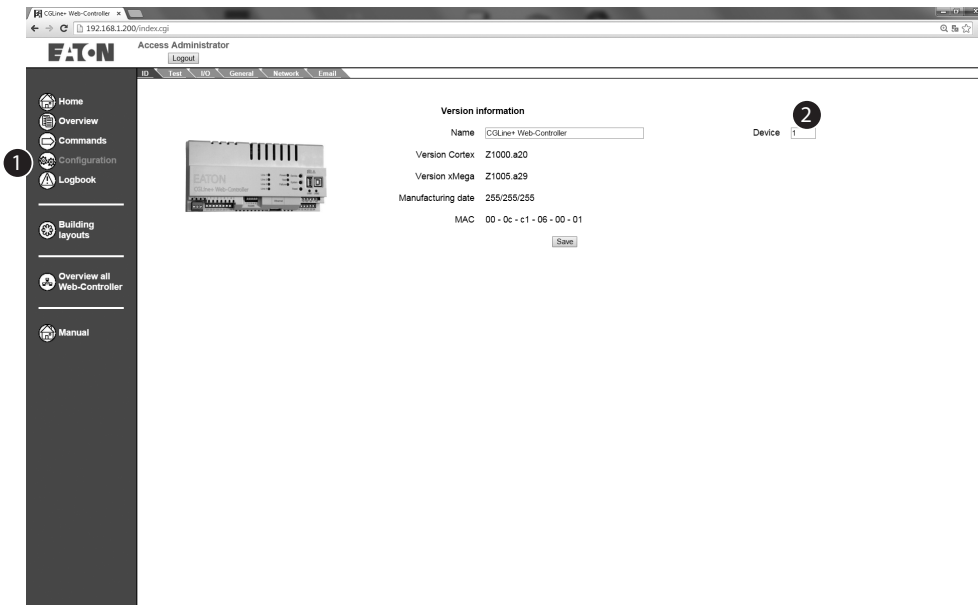
- n Block: Emergency light function and maintained mode are deactivated, e.g. during idle operating times
- n Rest mode: During a mains failure (luminaires are in emergency mode), the rest mode will switch OFF the luminaires. If mains return, the luminaires will go back in normal mode. To the next mains failure, the luminaires switch again to emergency mode.
- n Release / Relight: Release of the blocking or rest mode function
- n Start functional test: Specified luminaires start a function test
- n Start duration test: Specified luminaires start a battery duration test
- n Stop FT / DT: Function tests or duration tests are aborted
- n Switch maintained mode ON / OFF: Luminaires in maintained mode (L' applied) can be switched ON or OFF (if luminaire supports this function)
- n Update luminaire status: Actualisation of the luminaire status of all luminaires
- n Update luminaire type: Actualisation of luminaire type information
- n Search all lamp: Completely new luminaire search – caution: old configurations are overwritten. All luminaires will be addressed with a logical address from 1 up to 200 or 1 up to 400.
- n Search new lamp: Starts a luminaire search and only adds newly found luminaires. All new luminaires will be addressed with a logical address from last existing luminaire up to 200 or up to 400.
- n Search initialized lamp: Already addressed luminaires keeps their addresses after search
- n Load config PC soft: Load a configuration which was created by the CGLine+ PC software. The config file must have the filename „config.xml

Selection of luminaires to be controlled **4**:

- n Line: Selection of luminaire lines 1 to 4
- n Zone: Selection of luminaire zone 2 to 16
- n Luminaire: Selection of single luminaires in the line and zone
- n If "All" is selected: Command applies to all luminaires

## 7 Common operation of the web screens

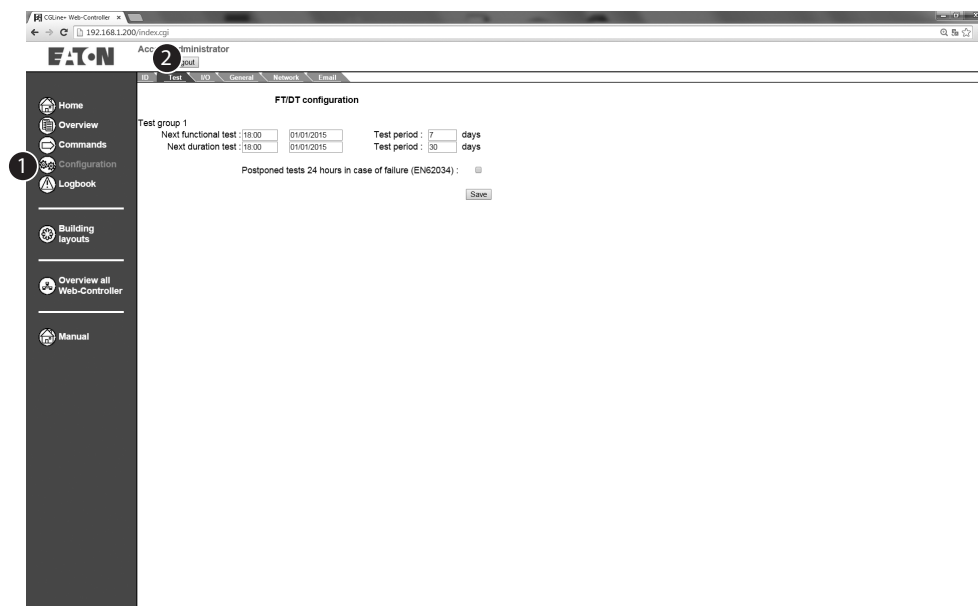
### 7.9 Device information screen



The device information screen in the configuration menu **1** displays information about the CGLine+ Web-Controller, such as device name (freely configurable), software version etc.

It is also possible with several CGLine+ Web-Controllers in the network to assign a logical address to each from 1 to 32 **2**.

### 7.10 Configuration screen test times



On the "Test" tab **2** in the configuration menu **1**, it is possible to determine start times for a function test and duration test for up to 8 groups.

It is also possible to set a test interval via which tests are cyclically repeated. Possible test frequencies:

- n Function test: 1-30 days
- n Duration test: 30-365 days

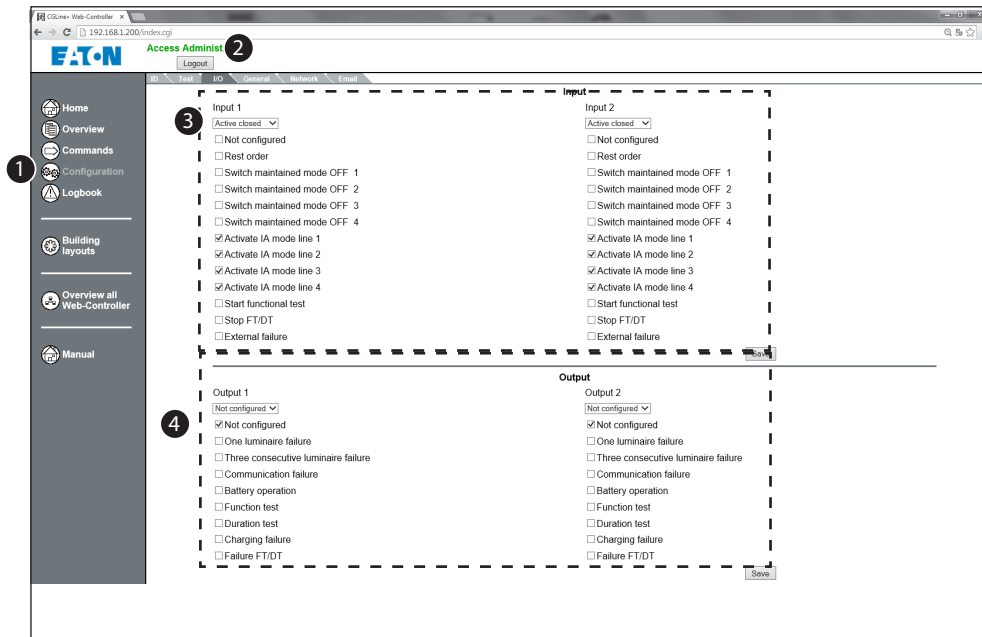
The CGLine+ self-contained luminaires of the corresponding test groups then carry out an automatic function test of the lamps or a duration test of the batteries according to these set times.



#### NOTE

If the period of mains failure is greater than 21 days, the complete system should be re-commissioned. Especially the date and time must be reconfigured to assure proper sequencing

## 7.11 „Digital input/output“ configuration screen



In the configuration menu of the two digital inputs ①, ② the inputs can be assigned specific commands and the two relays can be assigned conditions when the relay's state changes.

## Configuration of the two digital inputs ③:

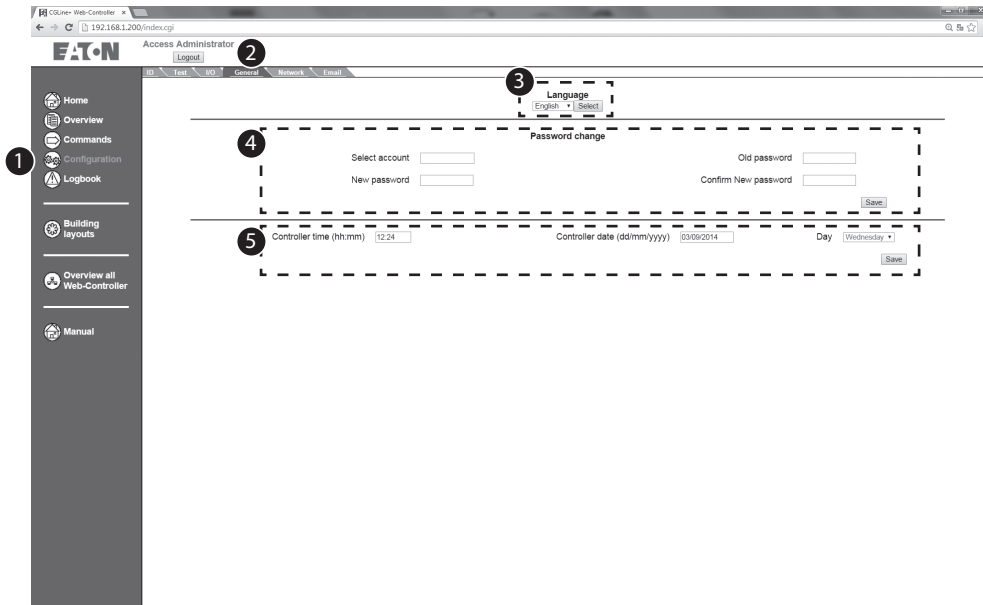
- Not configured: no function
- Rest order: During a mains failure (luminaires are in emergency mode), the rest mode will switch OFF the luminaires. If mains return, the luminaires will go back in normal mode. To the next mains failure, the luminaires switch again to emergency mode.
- Activate IA mode: Activate the Increase Affordance mode in line 1, 2, 3 and/or 4.
- Maintained mode OFF per line: Switches off the maintained mode luminaires of the line as long as the input is active
- Start function test: With positive pulse, starts the function test with all luminaires
- Stop FT/DT: Interrupts a duration test or function test with all luminaires
- External failure

## Configuration of the two relay outputs ④:

- Not configured: no function
- One luminaire fault: Common fault for at least one luminaire
- Three consecutive luminaires failure: At least 3 consecutive luminaires in a zone are faulty
- Communication fault: At least 1 luminaire has a communication fault
- Battery operation: At least 1 luminaire is in battery mode, e.g. with mains failure
- Function test: At least 1 luminaire is in a function test
- Duration test: At least 1 luminaire is in a duration test
- Charging failure: At least 1 luminaire has a battery or charge fault
- Test failure: At least 1 luminaire has an FT or DT fault, e.g. nominal operating time not reached

## 7 Common operation of the web screens

### 7.12 General device settings



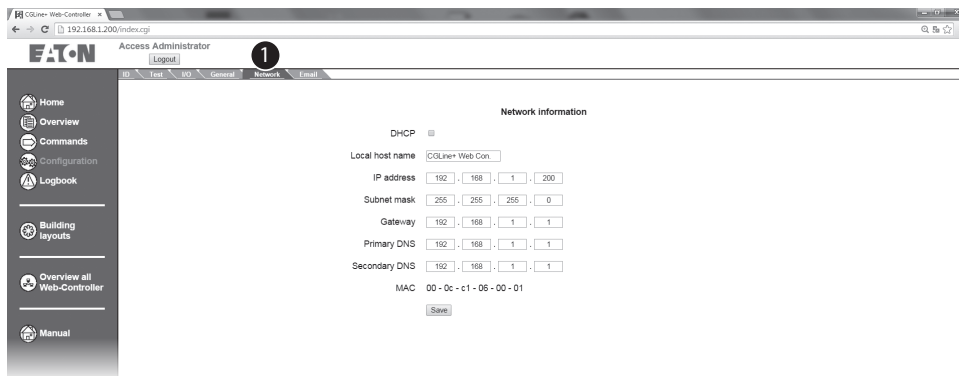
On the General tab **2** in the configuration menu **1** the desired country language can be set via the drop down menu **3**.

It is also possible to modify or define the password **4** for 2 access accounts to set the date and time settings of the CGLine+ Web-Controller **5**.

To modify the passwords **4** the corresponding account is selected. Firstly the old password must be set. The new password is then saved via "Save" after it has been input a second time.

For tests to be implemented at the correct times and to ensure that the inspection book entries are chronologically correct, it is necessary after the commissioning to correctly set the date and

### 7.13 Network (settings)



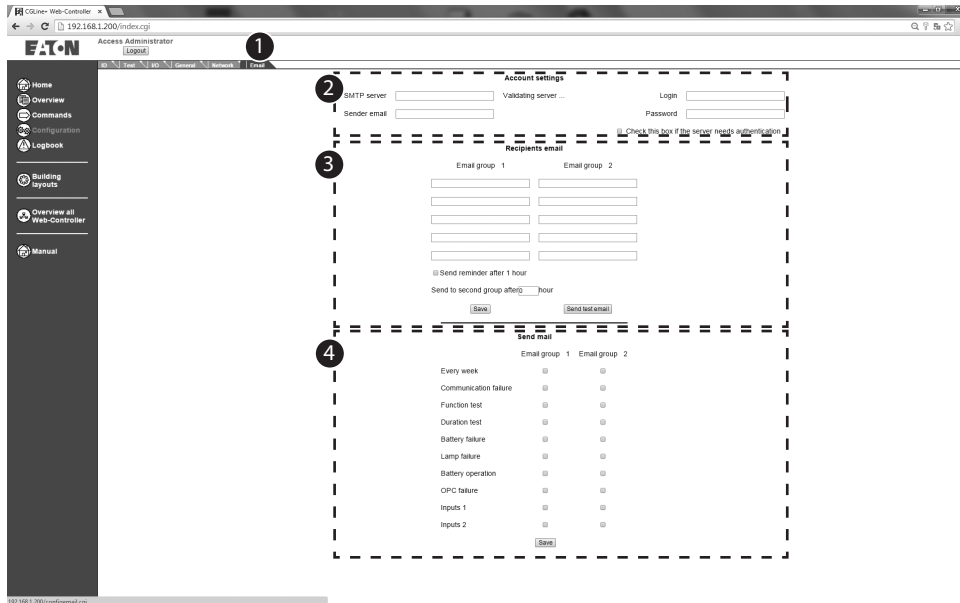
In the network configuration page **1** it is possible to configure all necessary network settings. The basic IP settings are already described in the manual for first commissioning.

Following settings are possible:

- n DHCP: (Dynamic Host Control Protocol) if a DHCP is in the network available, it is possible to activate DHCP. During booting the device will get an IP-address from the DHCP server. Please note: The assigned IP address must be known, to open the website of the CGLine+ Web-Controller!
- n Local host name: Any identification name of the Controller
- n IP address: IP address in IPV4 format xxx.xxx.xxx.xxx, normally provide by the IT-department, factory default is 192.168.1.200
- n Subnet mask: Normally provide by the IT-department, factory default is 255.255.255.0 (Class C)
- n Gateway: Gateway address to communicate to other subnets, normally provide by the IT-department, factory default is 192.168.1.1
- n Primary DNS (Domain Name System): Normally provide by the IT-department. DNS provides a name resolution for network devices.
- n Secondary DNS: Second DNS
- n MAC-address of the CGLine+ Web-Controller: Fixed identification no. of the web-controller in a network.



## 7.14 Configuration of E-mail



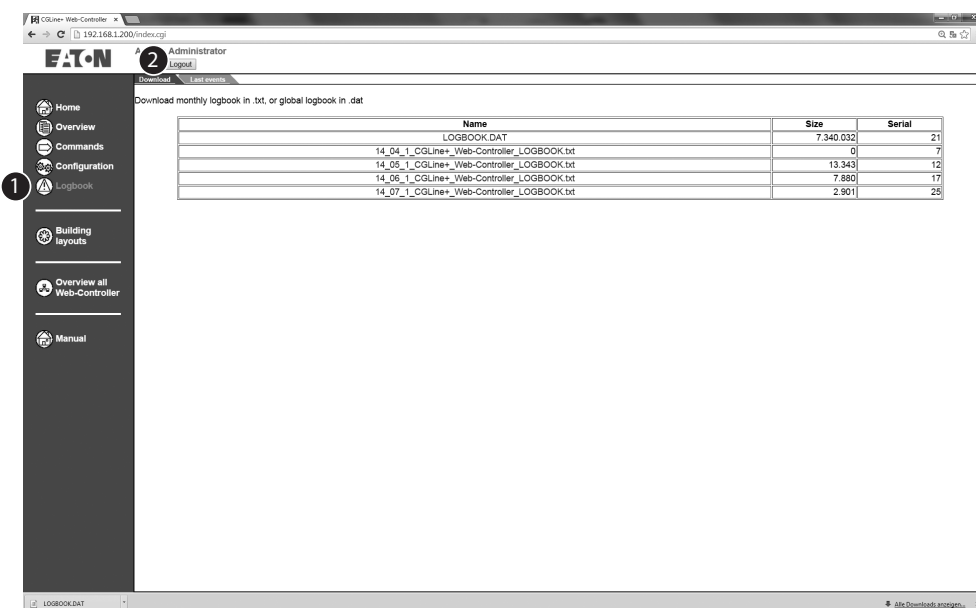
The CGLine+ Web-Controller contains an integrated e-mail client **1** that with configurable events enables e-mails to be sent to up to 10 persons.

Account settings **2**: Please enter IP-address of the mail server, name of the mail sender (head of email) and login data, if required

Recipients email **3**: Setup for up to 10 recipients. 2 groups with 5 recipients each.

Send mail **4**: Configuration on which event the recipients will receive an email, e.g. after a function test

## 7.15 Logbook

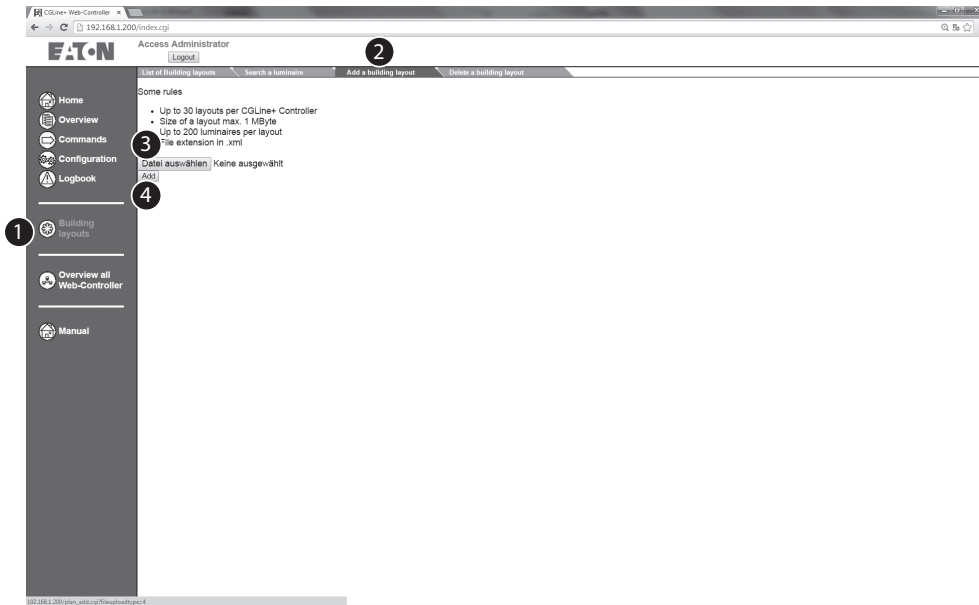


The CGLine+ Web-Controller produces a monthly logbook, which is available for download **2** in the menu logbook **1**. The name of the logbook contains the date of the month, e.g. 14\_06\_01\_CGLine+ Web-Controller\_logbook.txt is in format year\_month\_day, so in this example the logbook is for June 2014.

A complete logbook is downloadable via logbook.dat. This file is only usable with the CGLine+ PC-software! (see manual CGLine+ PC-software)



### 7.18 Building layout – Add a layout



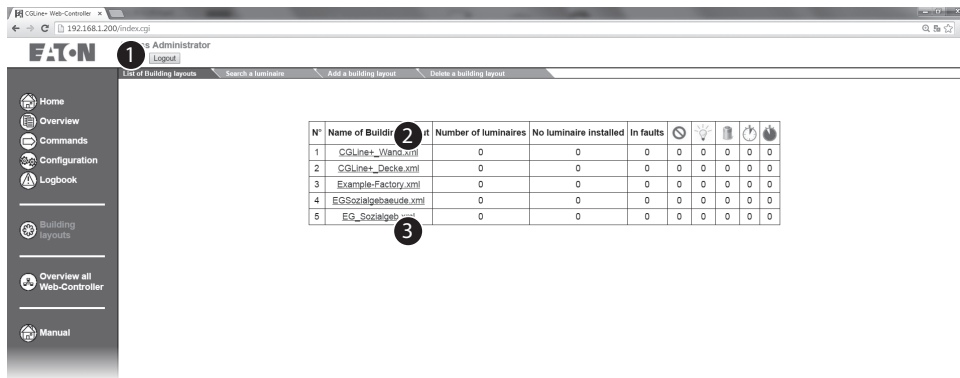
The import of the external generated building layouts is possible in the folder „Add a building layout“ (2) in the menu „Building layout“ (1).

The size must be less than 1 Mbyte / picture. Maximum 30 picture are possible.

To import, please click on „add layout“ (3), and select the picture in .xml format on the source drive.

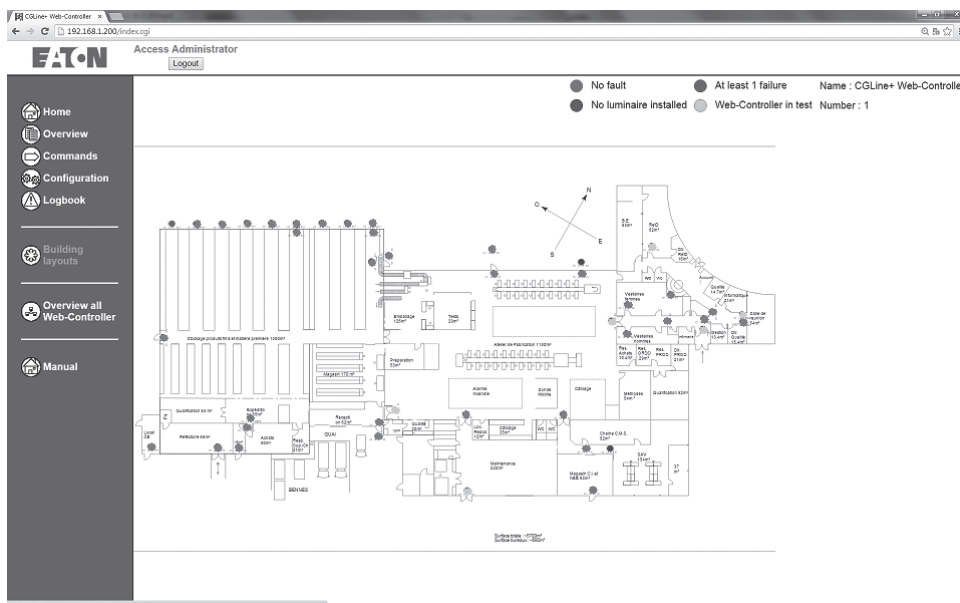
To load the picture to the CGLine+ Web-Controller, please click „add“ (4).

### 7.19 Building layout – list of building layouts



The building layouts can be displayed now by the folder „List of building layouts“ (1). With click on the name of the layout, which is displayed as hyperlink with .xml extension (2), the layout can load from the controller. A new task will open. See example of a building layout below. A click on the hyperlink (blue) opens the building layout picture (3).

### 7.20 Building layout – basic view



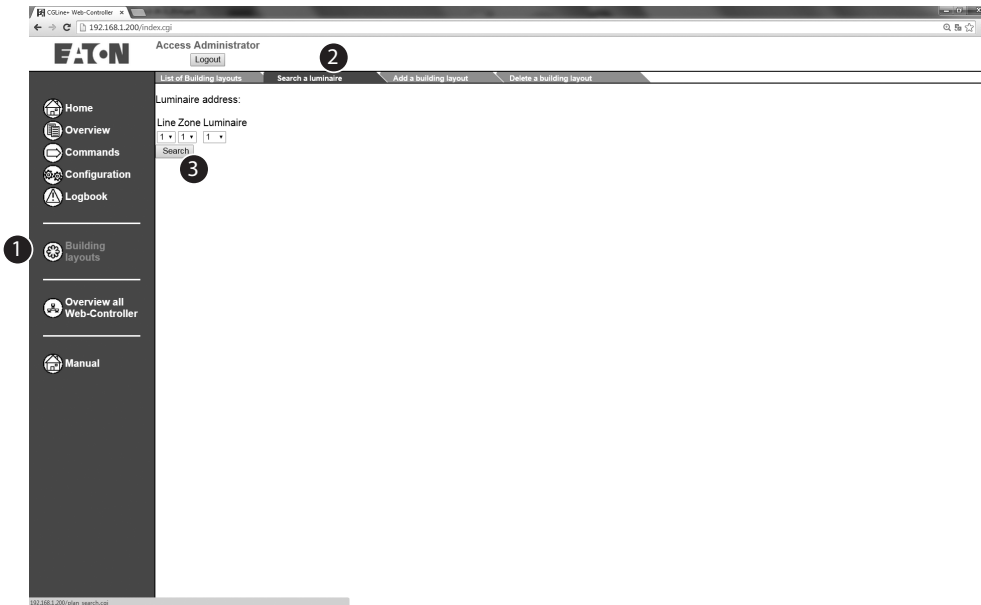
After click on the link, the embedded layout picture appears. The status of the luminaires will be displayed with colours:

- n green = normal operation
- n yellow = FT or DT active
- n red = failure

Via menu “Building layouts” it is possible to go back to the building layout menu.

## 7 Common operation of the web screens

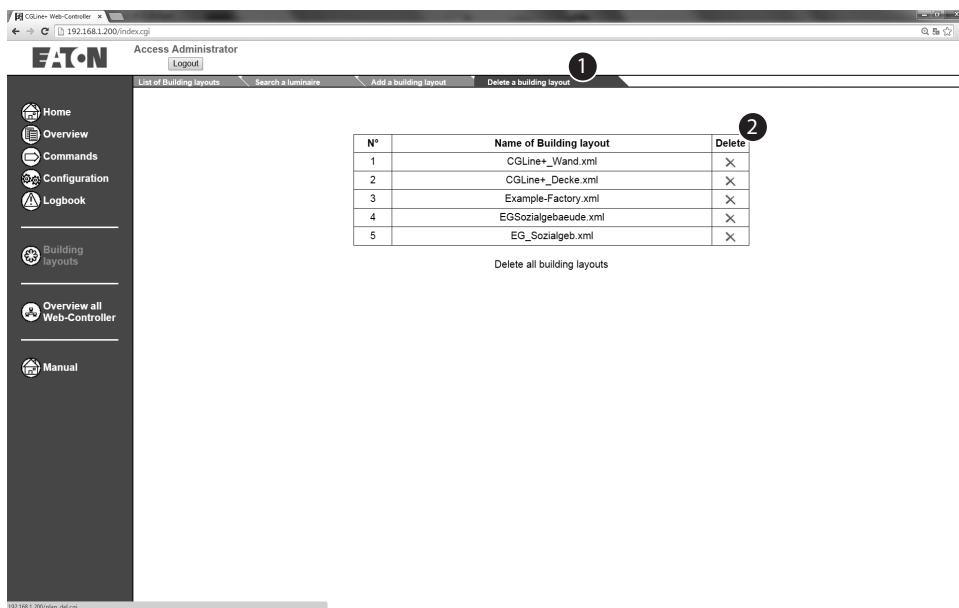
### 7.21 Layout programming – searching for a device



For locating luminaires in a line and zone in a layout plan, there is a search function **1**, **2**. This enables quickly finding any defective luminaires in a building.

To find a luminaire in the layout plan, the line, the zone and the luminaire to address can be selected. The corresponding luminaire in the layout is highlighted via "Search" **3**.

### 7.22 Layout programming – deleting a layout



In the menu "Delete layout" **1** any graphics created can be deleted again from the web server.

Selected plans are removed again via "Delete layout". **2**

### 7.23 Multi-site configuration



To display the CGLine+ Web-Controller with status in the menu "Overview all Web-Controller", the IP addresses of the devices must be entered. ①

②: The IP address to must be entered here. After confirming via "Add", the devices are automatically created.

A device can be deleted from the list again via "Delete". ③

### 7.24 Overview all Web-Controller

The screenshot shows the 'Overview all Web-Controller' page. It features a table with the following columns: controller, line, Nb of units 36, Nb of faults 0, Zone (0-15), Input, and Output. The table contains four rows of data, each representing a controller. Each row has a warning icon in the controller column. The 'Nb of units 36' and 'Nb of faults 0' columns are consistent across all rows. The 'Zone' columns show a pattern of dots and dashes, indicating the status of each zone. The 'Input' and 'Output' columns show square icons representing the status of each.

controller	line	Nb of units 36	Nb of faults 0	Zone	Input	Output
controller 2	Line 0 Line 1	Nb of units 36 Nb of units 36	Nb of faults 0 Nb of faults 0	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	■	■
controller 2	Line 0 Line 1	Nb of units 36 Nb of units 36	Nb of faults 0 Nb of faults 0	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	■	■
controller 2	Line 0 Line 1	Nb of units 36 Nb of units 36	Nb of faults 0 Nb of faults 0	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	■	■
controller 2	Line 0 Line 1	Nb of units 36 Nb of units 36	Nb of faults 0 Nb of faults 0	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	■	■

With several installed CGLine+ web controllers in the network, all devices can be displayed clearly with status display in a list ①. For this purpose the devices must be registered and entered a single time, see above.

Status display of zones, inputs and outputs of all CGLine+ web controllers installed in the network.

② CGLine+ web controllers installed in the network

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