



Operating Instructions Webmodule ZB-S

Target group: Skilled electricians

400 71 860 051 (A)



Operating Instructions

Webmodule ZB-S

Index


1	Safety Instructions	3
2	Conformity with standards	3
3	Technical data.....	3
	3.1 Description / Scope of application	3
4	Installation.....	3
	4.1 Mounting	3
	4.2 Electrical connection.....	3
	4.3 Commissioning the Webmodule on the ZB-S	4
	4.4 Deactivate the webmodule on the control unit ZB-S.....	4
	4.5 Monitoring via an internet browser	5
5	Homepage / Login.....	6
6	Submenus	8
	6.1 Overview ZB-S.....	8
	6.2 Overview SKU.....	9
	6.3 DLS/TLS/3PhW.....	11
	6.4 Settings.....	12
	6.5 Email-Messages.....	14
	6.6 Other webmodules.....	15
7	Example of locating a luminaire failure	16
8	Data gets synchronized	19

Operating Instructions

Webmodule ZB-S



1 Safety Instructions

- The Webmodule ZB-S shall only be used for its intended purpose and in undamaged and perfect condition!
- When working on the electronic device make sure that it is disconnected from the voltage! Pay attention to the different power supplies in mains or battery operation.
- Observe the national safety rules and regulations for prevention of accidents as well as the safety instructions included in these operating instructions marked with 

2 Conformity with standards

Conform to: EN 60950-1.
Developed, manufactured and tested acc. to ISO 9001.

3 Technical data

Supply voltage: 24 V DC
Power consumption: < 1.5 W
Connection: RJ45
Insulation class: III
Degree of protection acc. to EN 60529: IP 20
Ambient temperature: -10 °C .. +55 °C
Connection terminal: 1,5 mm²
Weight: 0,1kg
Dimensions: 90 x 35 x 58mm

3.1 Description / Scope of application

The webmodule ZB-S for visualisation and monitoring of a central battery system ZB-S via local ethernet (LAN) with a customary WEB-browser (e. g. Internet Explorer™). Integrated mail-client for a comfortable and event based failure notification for up to 5 email addressees. Password protected access accounts capable of parametrisation.



Note:
For operation of the webmodule with a ZB-S system the following software-state must be installed in the control module:
P/F/H (Mega 128/RS485/FTT 10A)

4 Installation



For the mounting and operation of electrical apparatus, the respective national safety regulations as well as the general rules of engineering will have to be observed!

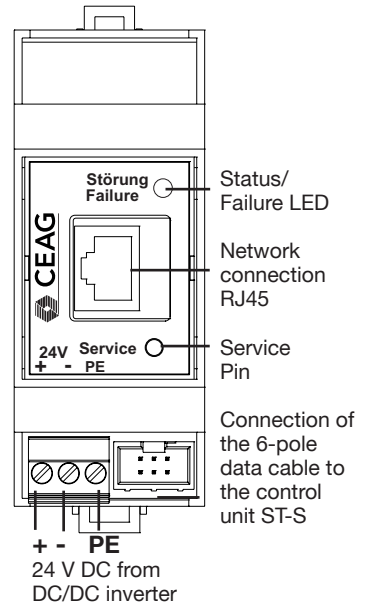
4.1 Mounting

Pay attention to temperatures outside the permitted range during operation. The permissible ambient temperature may not exceed 55°C.

The module was designed for DIN rail mounting (2TE) to be only mounted in the cabinet. An external mounting outside the ZB-S cabinet is not

permitted.

4.2 Electrical connection

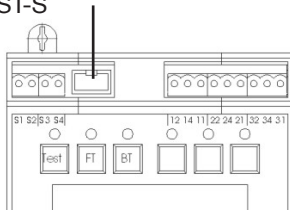


The webmodule ZB-S is supplied with 24V DC of the DC-DC inverter of the ZB-S. The PE connector must be connected to the protection earth (PE) in the ZB-S.
Note: The DC-DC inverter can supply max. 20 pcs. further DLS/3Ph-busmodules/TLS-modules!
The 6-pole data cable connects the webmodule with the ST-S control unit:

Operating Instructions

Webmodule ZB-S

Connection of the data cable to the control unit ST-S



Note:

Keep the distance of the data cable between the webmodule and the control unit ST-S as short as possible. Please avoid a wiring around the charging unit.

4.3 Commissioning the Webmodule on the ZB-S

After connection of the power supply (24V DC), the webmodule needs approx. 1.5 minutes for booting. After the booting, the red LED of the webmodule flashes slowly. To log on the webmodule on the ST-S control unit, the service pin of the webmodule must be pressed for approx. 1 second.

The menu „webservice setup“ appears in the display of the control unit of the ZB-S. During the log on procedure the display shows a lot of question marks.

After approx. 3-5 seconds the display shows the standard settings of the webmodule:



The webmodule gets automatically activated to the control unit, which is displayed by the red LED (some seconds) of the control unit and the webmodule. After 1-2 minutes the procedure is finished and the webmodule is ready to operate.

LED-display of the webmodule:

LED flashes slowly: webmodule is not activated on the control unit.
Status-LED flashes fastly 3x : when pushing the service pin for approx. 10 seconds the webmodule will be set back into delivery status.

Service pin of the webmodule:

Pressing the service pin for: 1 sec.: login/logout of the webmodule on the control unit ST-S

> 10 sec.: resets the module to the delivery status



Attention!

All programmed data get lost!

4.4 Deactivate the webmodule on the control unit ZB-S

The webmodule can be deactivated on the control unit. For this, the service pin of the webmodule has to be pressed for approx. 1 sec. The screen showed in the picture above appears. With the push button „arrow left“ or „arrow right“ the webmodule can be set as „not installed“. Press o.k. and back with menu button. Now the webmodule is offline and the red LED flashes slowly.

Operating Instructions

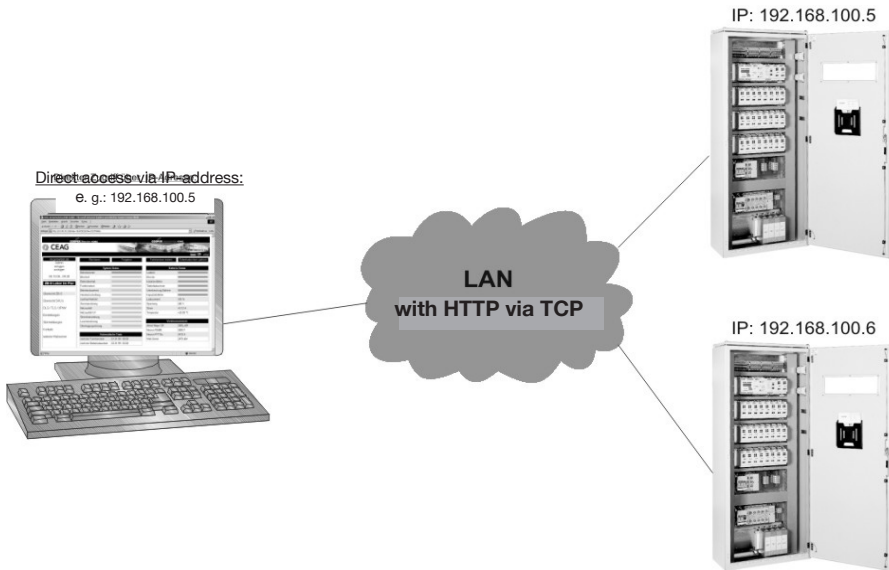
Webmodule ZB-S

During activities on the control unit of the ZB-S, e.g. programming of luminaires, it is possible that the connection between the control unit and the webmodule is interrupted for a short time. This gets displayed by a red LED on the control unit or rather on the webmodule.

Furthermore the webbrowser shows „data is synchronized“. The connection will automatically be restored after a short time.

4.5 Monitoring via an internet browser

Functional schematic:



The webmodule allows a visualisation of a ZB-S/US-S central battery system via ethernet.

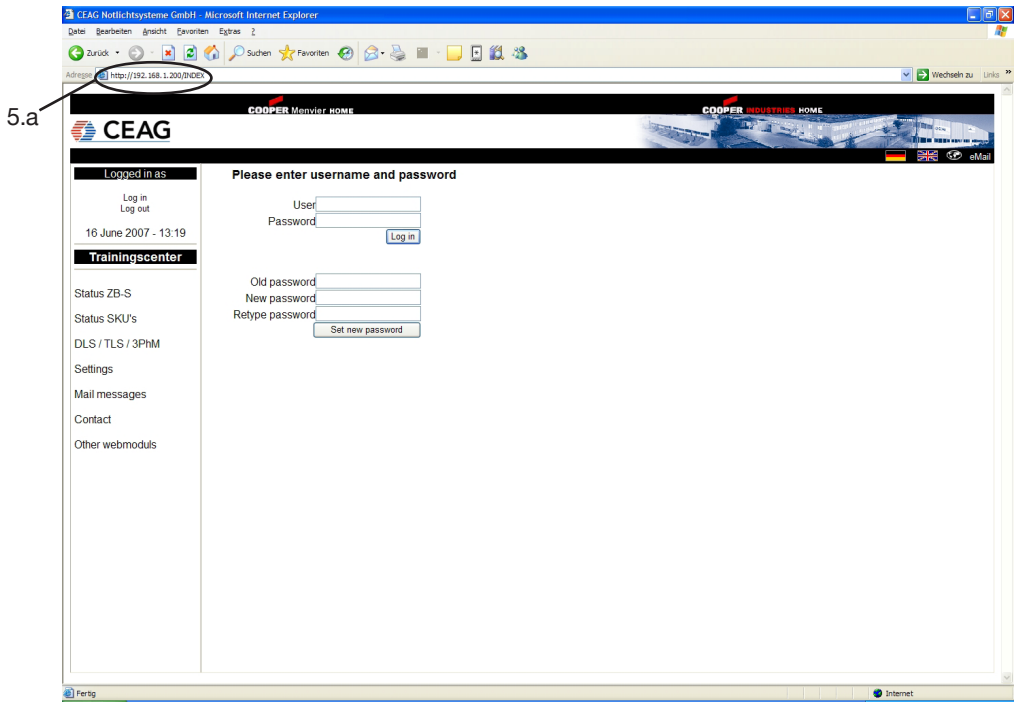
If the device shall be installed in a factory intranet it is necessary to get all required information, like network settings or mail settings from the IT-department in charge (see chapter 6.4, Settings)

Operating Instructions Webmodule ZB-S

5 Homepage / Login

By entering the TCP/IP-address (s. 5.a: ex works: 192.168.1.200) in the internet-browser the homepage will open.

Ex works 2 logins are given which can be modified individual at anytime:



Operating Instructions

Webmodule ZB-S

5.1: User: Admin
Password: ceag

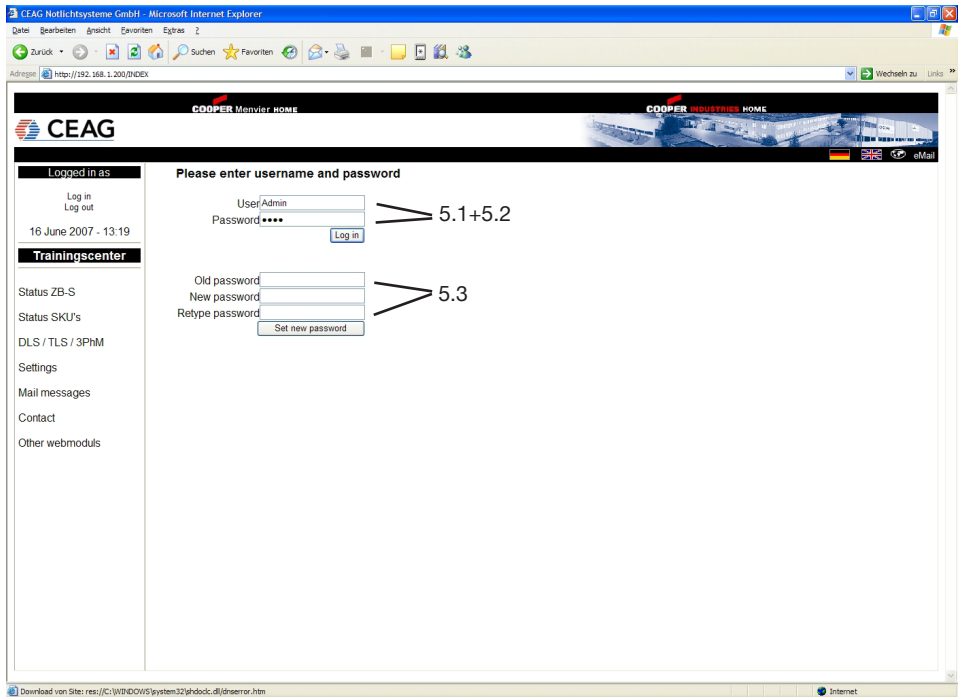
Permits unlimited use of the web server.

5.2: User: Guest
Password:(no password required)

Permits only access to status information.



Note:
Change the factory set password to avoid an unauthorized access!



5.3: A change of the password for the actual account is possible in the lower part of the entry mask. Therefore it is necessary to enter the old password, too.

Operating Instructions Webmodule ZB-S

6 Submenus

6.1 Overview ZB-S

6.1.1 After successful login the mask „Overview ZB-S“ appears by showing all relevant statuses of the system (control unit), battery and charging unit as well as display of the next automatic test (FT/BT) and software information on the control unit ZB-S. The statuses are shown

coloured:
green: function o.k.
yellow: FT/BT runs
red: function failure

6.1.2 When logged in as „admin“ it is possible to push the buttons for the following commands:
- block device
- release device
- start function test
- reset deep discharge protection

6.1.3 Choosing the menu on the left side you get in the marked submenus.

The screenshot shows a web browser window displaying the CEAG web interface. The page title is "CEAG Notlichtsysteme GmbH - Microsoft Internet Explorer". The address bar shows "http://192.168.1.200/index.html?SESSION=2066202819". The page content includes a navigation menu on the left and several status tables.

Logged in as: Admin
Log in
Log out
16 June 2007 - 13:23

Trainingscenter

Status ZB-S
Status SKU's
DLS / TLS / 3PhM
Settings
Mail messages
Contact
Other webmodules

Block device **Release device** **Start function test** **Reset deep discharge**

Device status	
Operation	Green
Blocked	Grey
Battery operation	Grey
Function test is active	Grey
Duration test is active	Grey
Manual reset	Grey
Delay on mains return	Grey
Failure	Grey
Mains failure	Grey
Mains failure on sub db	Grey
Circuit failure	Grey
Luminaire failure	Grey
Transmission failure	Grey

Battery status	
Charger	Green
Booster	Grey
ISO failure	Grey
Deep discharged	Grey
Battery circuit failure	Grey
Battery capacity too low	Grey
State of charge	100 %
Voltage	245 V
Current	+0.16 A
Temperature	+77.00 °F

Software information	
Animal Mega 128	2400.P
Neuron RS485	2405.F
Neuron FTT10A	2410.H
Webmodul	2470.c06

Automatic tests	
Next function test	01.01.99 / 00.00
Next duration test	02.01.99 / 02.00

Callouts:
6.1.1 points to the Device and Battery status tables.
6.1.2 points to the Start function test and Reset deep discharge buttons.
6.1.3 points to the left sidebar menu.

Operating Instructions Webmodule ZB-S

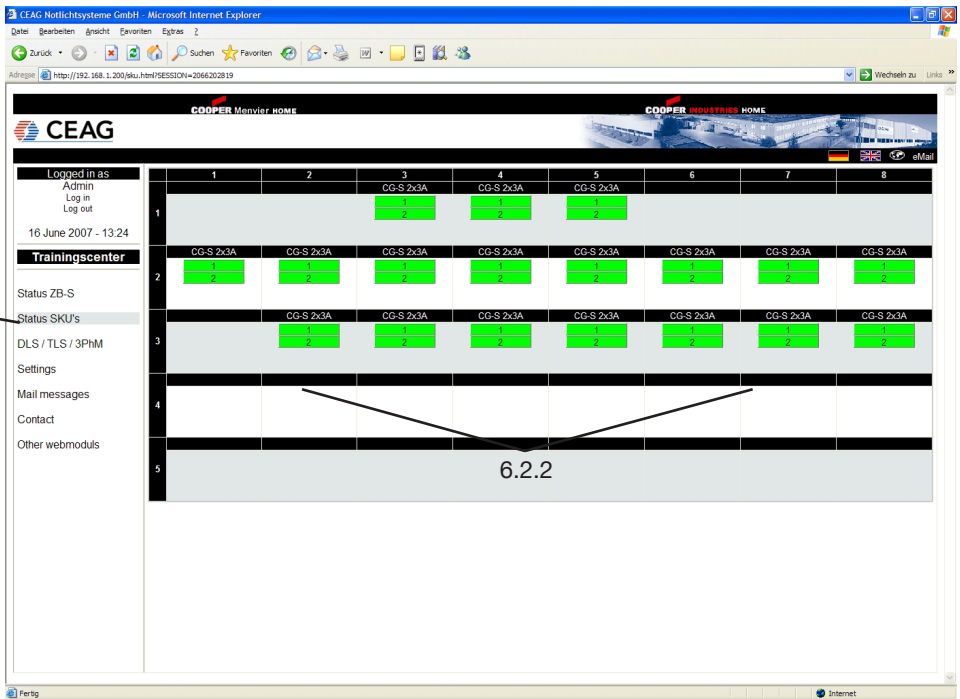
6.2 Overview SKU

6.2.1 In the mask „overview SKU“ the information about the equipment of the subracks with the corresponding SKU's is displayed with the following statuses:

- green:** circuit o.k.
- red:** circuit failure

6.2.2 With a click on the individual circuit the appendant mask starts.

6.2.1



Operating Instructions Webmodule ZB-S

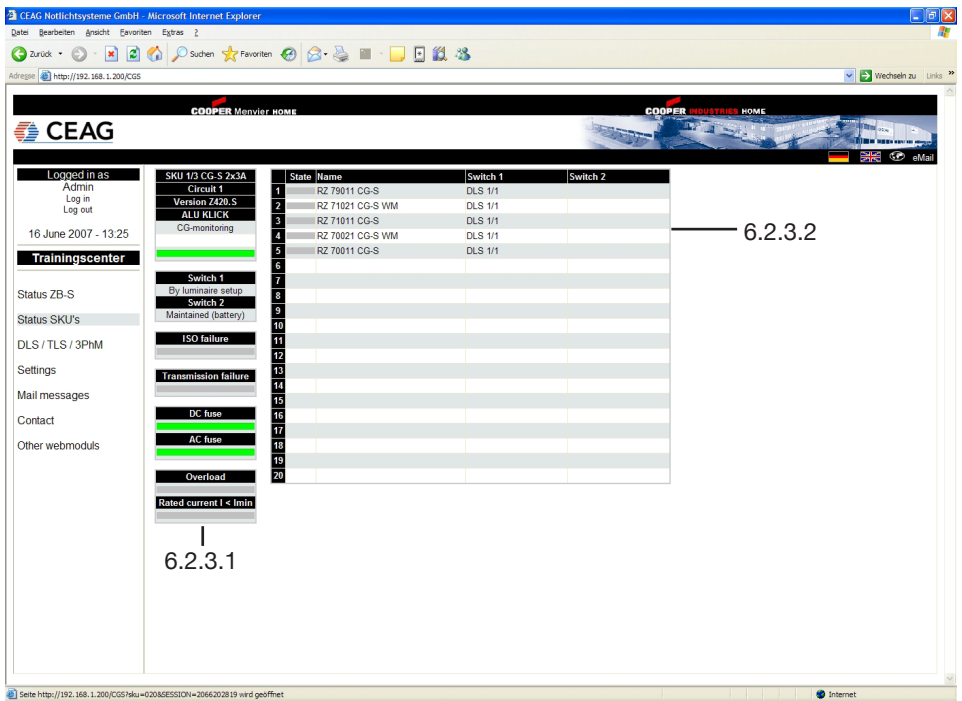
6.2.3 Circuit mask

6.2.3.1 The circuit mask shows the status of circuit as well as

6.2.3.2 the installed luminaires with marking of destination and switch allocation.

The status of the luminaire is shown as follows:

- grey:** offline
- yellow:** online
- red:** failure



Operating Instructions Webmodule ZB-S

6.3 DLS/TLS/3PhW

In the following mask all installed DLS-modules, TLS-modules, DLS/3PhW-modules are shown with the information on destination, status of module and input:

yellow: input active
grey: input not active
red: phase failed

CEAG Notlichtsysteme GmbH - Microsoft Internet Explorer

http://192.168.1.200/dls_3pwh.htm?SESSION=2066202819

COOPER Menuvier HOME

COOPER INDUSTRIES HOME

Logged in as Admin
Log in
Log out
16 June 2007 - 13:29

Trainingscenter

Status ZB-S

Status SKU's

DLS / TLS / 3PhM

Settings

Mail messages

Contact

Other webmoduls

ID	Type	Name	1	2	3	4	5	Gl.1	7/L2	St.3
1	DLS external	DLS 1 Eingebaut								
2	DLS external	DLS 2 Eingebaut								
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										

Operating Instructions Webmodule ZB-S

6.4 Settings

In the mask „Settings“ the main parameters of the webserver can be installed:

6.4.1 „User administration“: Input of new user with different authorities. By setting/removing the marking the authorities get activated/deactivated.

6.4.2 „Website setup“: - choosing language
- Update interval of the website (standard on 30 sec.)

6.4.3 „Network setup“: Please contact the IT-department, which dictates the parameters in the intranet:
- IP-address: obtain automatically
-> IP-address gets awarded over DHCP-server
- IP-address: use following values -> static IP-address

- IP-address: xxx.xxx.xxx.xxx
- Subnet-mask: xxx.xxx.xxx.xxx
- Gateway: xxx.xxx.xxx.xxx
- DNS-server: xxx.xxx.xxx.xxx

The screenshot shows the CEAG web administration interface in Microsoft Internet Explorer. The browser address bar shows 'http://192.168.1.200/LANGUAGE'. The interface has a navigation menu on the left with options like 'Admin', 'Trainingscenter', 'Status ZB-S', 'Status SKU's', 'DLS / TLS / 3PHM', 'Settings', 'Mail messages', 'Contact', and 'Other webmodules'. The main content area is divided into several sections:

- User administration:** A table with columns: User, Show device status, Block device, Release device, Start function test, Reset deep discharge, Website setup, and a trash icon. Rows include Admin, Gast, and Michaeli.
- Website setup:** Fields for Language (Great Britain - english), Update interval (10 sec.), and a Save button.
- Network setup:** Radio buttons for 'Obtain automatically' and 'Use following values'. Fields for IP-address (192.168.1.200), Subnet mask (255.255.255.0), Gateway (0.0.0.0), and DNS server (0.0.0.0), with a Save button.
- E-Mail options:** Radio buttons for 'None', 'SMTP server', and 'POP3'. Fields for POP3 server, SMTP server, SMTP port (25), User, Password, Sender, and five Recipient fields, with a Save button.

Annotations with arrows point to specific sections: 6.4.1 points to the User administration table; 6.4.2 points to the Website setup section; 6.4.3 points to the Network setup section; and 6.4.4 points to the E-Mail options section.

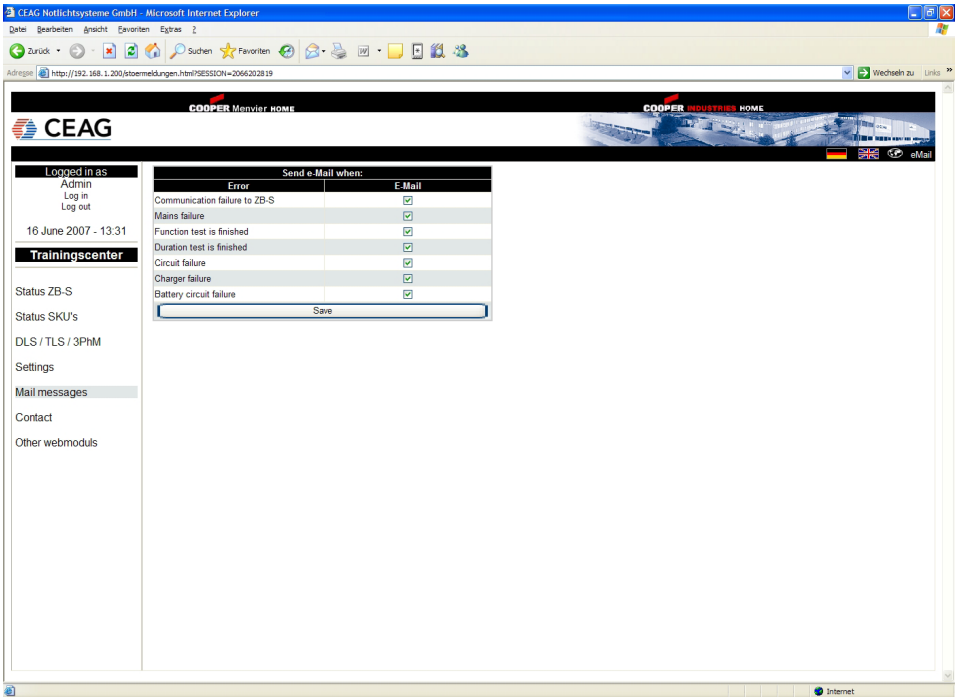
6.4.4 „E-mail Options“:
The CEAG ZB-S webmodule has an integrated mail-client, which can send an Email to up to 5 email-addressees in case of an adjustable event (s.chapter. 6.5: „Email-messages). You get the necessary information from your relevant IT-department (e.g. POP3 or SMTP-server).

Operating Instructions

Webmodule ZB-S

6.5 Email-Messages

In this menu it can be chosen in which case of failure an Email shall be send.



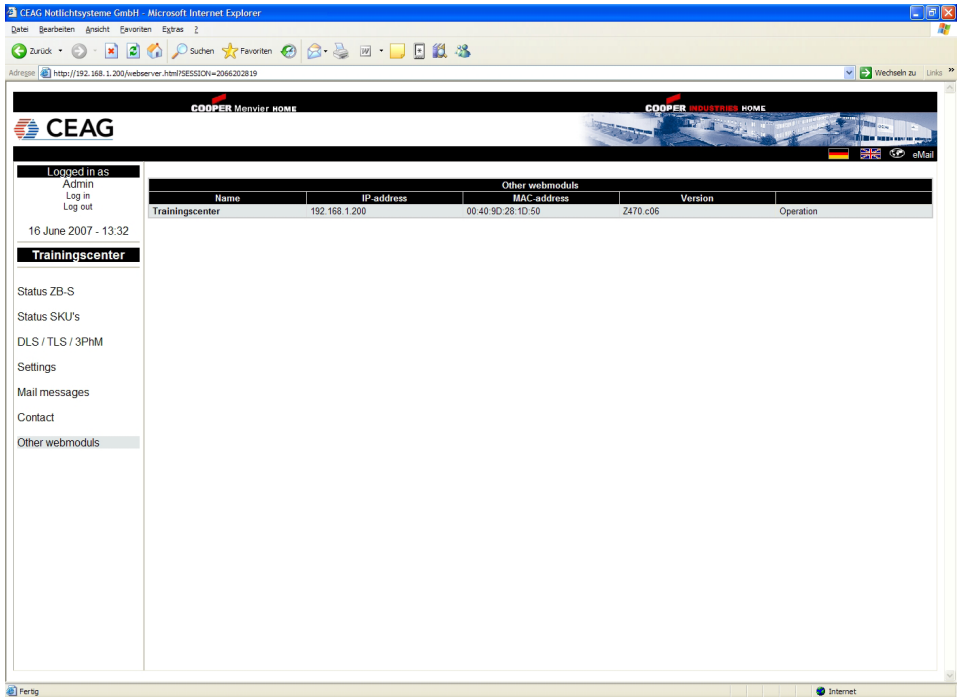
Operating Instructions

Webmodule ZB-S

6.6 Other webmodules

This menu shows all installed ZB-S webmodules in the network including their addresses and actual

statuses (exact function has to be permitted by the IT-department)
Choose webserver by clicking on its name, than the relevant mask will appear.



Operating Instructions

Webmodule ZB-S

7 Example of locating a luminaire failure

When locating a failure after a function test the following statuses are shown on the mask „Overview ZB-S“:

7.1 „Failure“ and „Luminaire failure“ are red.

7.2 By clicking on „Status SKU's“ the relevant circuit will open.

The screenshot shows the CEAG web interface for the COOPER Menvior HOME system. The interface is divided into several sections:

- Left sidebar:** Contains navigation links such as "Logged in as Admin", "Trainingscenter", "Status ZB-S", "Status SKU's", "DLS / TLS / 3PhM", "Settings", "Mail messages", "Contact", and "Other webmodules".
- Top navigation:** Includes buttons for "Block device", "Release device", "Start function test", and "Reset deep discharge".
- Device status table:** Lists various operational states. The "Failure" and "Luminaire failure" entries are highlighted with red bars, as indicated by a red circle and label 7.1.
- Battery status table:** Displays battery-related metrics such as "State of charge", "Voltage", "Current", and "Temperature".
- Automatic tests table:** Shows the next scheduled function and duration tests.
- Software information table:** Lists software components like "Armel Mega 128", "Neuron RS485", and "Webmodul".

Label 7.2 points to the "Status SKU's" menu item in the sidebar, which is used to access the relevant circuit details.

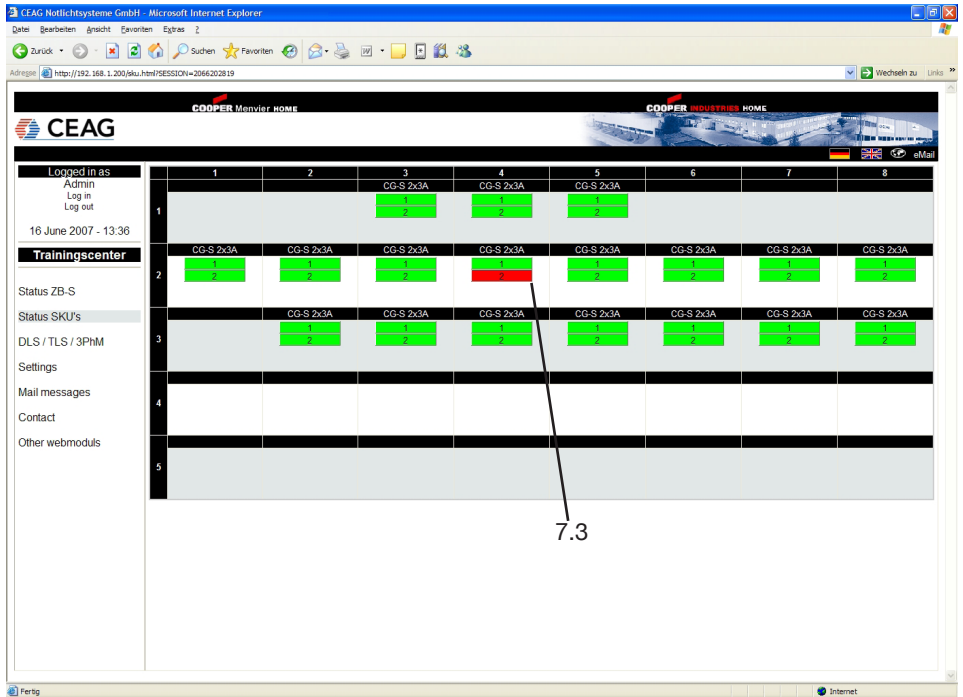
Operating Instructions

Webmodule ZB-S

7 Example of locating a luminaire failure

In the most „Status SKU’s“ the failed circuits are shown in a red colour.

7.3 When clicking on the relevant circuit the attended mask appears.



Operating Instructions Webmodule ZB-S

7 Example of locating a luminaire failure

The failed luminaires are shown red coloured under the point „state“. For an easier orientation name the

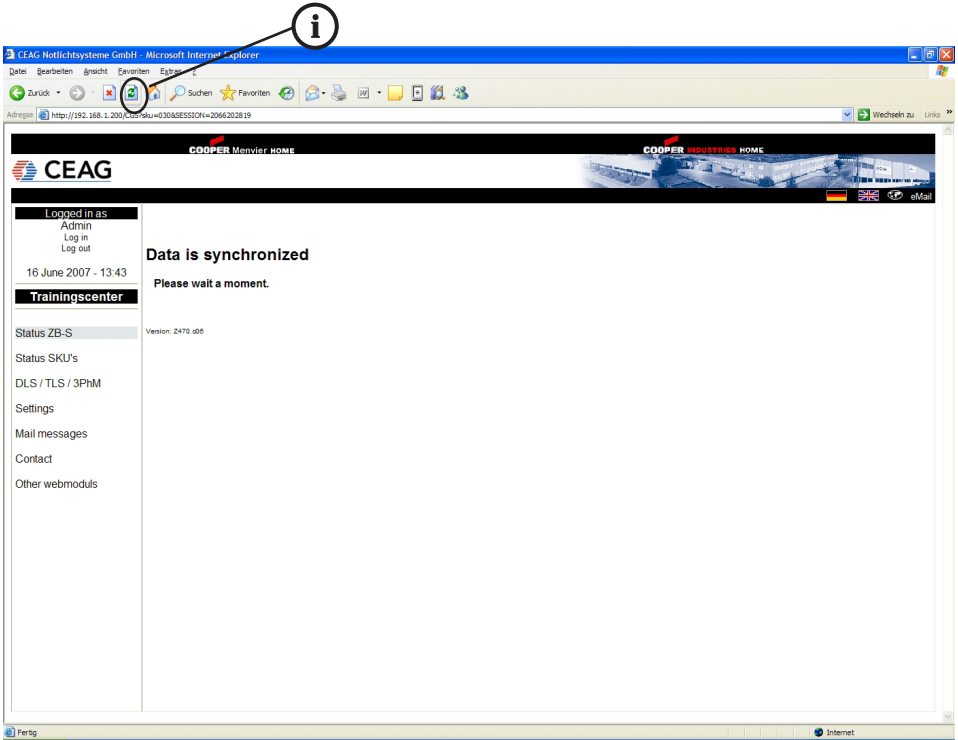
location of the luminaire. After repairing the luminaire a further function test has to be done for reset the display.

The screenshot shows the CEAG web interface for the ZB-S module. The main content area displays a table with the following data:

State	Name	Switch 1	Switch 2
1	RZ 51021 CG-S, Decke	DLS 1/3	
2	RZ 51021 CG-S, Ausl.	DLS 1/3	
3	RZ 51011 CG-S, Pendel	DLS 1/3	
4	SL 51011 CG-S, Wand	DLS 1/3	
5	SL 57011 CG-S, Ausl.	DLS 1/3	
6	SL 57011 CG-S, Wand	DLS 1/3	
7	RZ 22021 CG-S, Pendel	DLS 1/3	
8	RZ 22011 CG-S, Wand	DLS 1/3	
9	RZ 55021 CG-S, Decke	DLS 1/3	
10	SL 55011 CG-S, Wand	DLS 1/3	
11	RZ 57021 CG-S, Decke	DLS 1/3	
12	RZ 57011 CG-S, Wand	DLS 1/3	
13	Transmission failure		
14			
15			
16	DC fuse		
17	AC fuse		
18			
19	Overload		
20	Rated current I < I _{min}		

8 Data gets synchronized

Changing the configuration on the ZB-S control unit (e.g. with CGVision) the following mask could be shown:



It is shown that changes of configuration on the control unit get synchronized with the webserver. It takes approx. 1 - 2 minutes until the procedure ends. The website will be updated every 10 seconds.

i Note: If necessary an update of this display in the internet-browser should be done!



In case of returns you need a RMA-number from us. For further information see www.ceag.de!

- We reserve the right to carry out technical changes! -

400 71 860 051 (A)/xxx/01.10/
Gültig ab 01.10



COOPER

CEAG Notlichtsysteme GmbH

Senator - Schwartz - Ring 26

D-59494 Soest

Phone

+49 29 21/69-870

Fax

+49 29 21/69-617

Internet

<http://www.ceag.de>

E-Mail

info-n@ceag.de