

Product Description / Intendend Use

- The ELREHA Gateway serves as a frontend of a cooling plant by communication with control systems via interfaces. It prepares all recorded values and presents them on websites
- The ELREHA Gateway is designed to connect all ELREHA control systems with RS-485 interfaces
- To view, to adjust and to call up the values only a current browser is necessary
- Recording of alarm/state messages and measuring values
- Alarm messages can be sent by Email
- It can be integrated in PC networks by an ethernet connection
- All PC's in this network are able to access to all information
- In this way it is possible to connect and access the ELREHA Gateway to the internet
- 4x USB, 2x Ethernet
- The Web Gateway is provided for dry and dust-free environment



ELREHA

ELEKTRONISCHE REGELUNGEN GMBH

Technical Manual **5320022-0005e00**

2021-01-29, tkd/wr

ELREHA Gateway Web Solution 2.0

from Software Version 3.5.1

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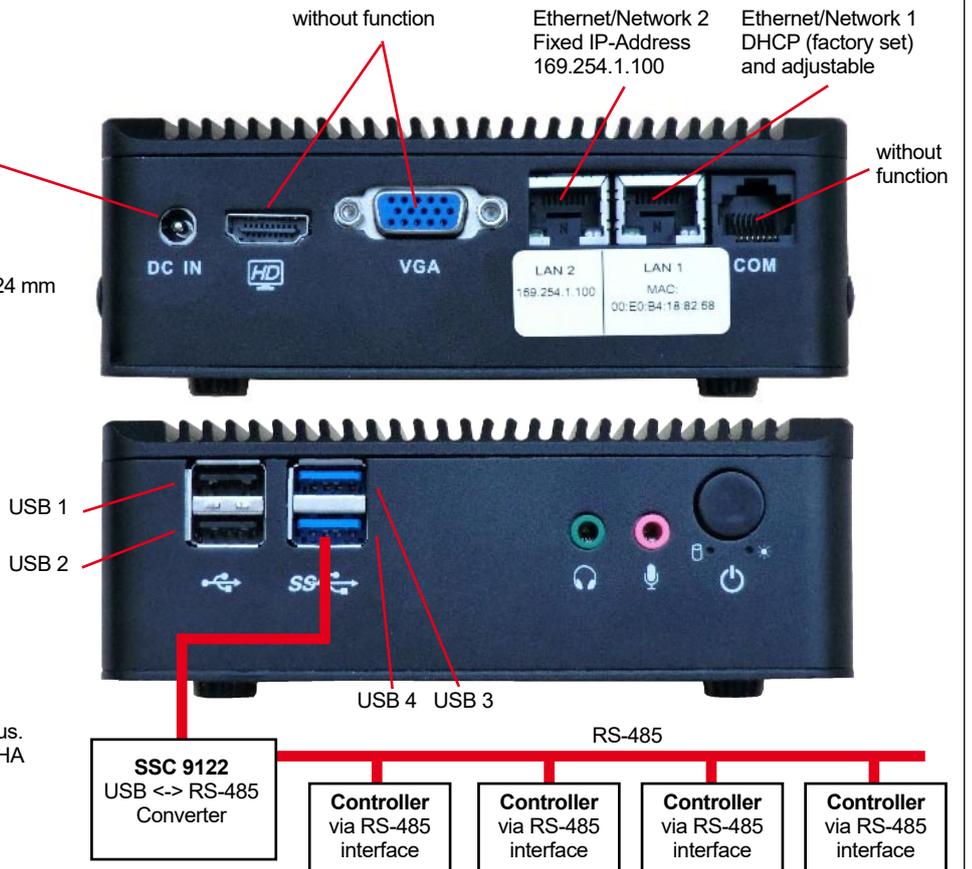
i Notice The ELREHA Gateway can be operated with these browsers:
 Internet Explorer from version 9
 Mozilla Firefox from version 35
 Microsoft Edge from version 12
 Google Chrome from version 47

! DANGER
Please note the Safety Instructions !

Electrical Connection



Dimensions(H x W x D) 46 x 134 x 124 mm
 Ambient conditions
 for operation:-20°C...60°C
 0-95% relative humidity,
 not condensing
 Clean only with damp cloth



**Controller networking
via SSC <-> RS-485 Interface**

The ELREHA Gateway communicates via an SSC-9122 interface converter and an RS-485, 2-wire connection with up to **64** controllers on a bus. Each controller that is connected to the ELREHA Gateway is assigned an individual address.

Page 'Evaluation' (Graphical Overview)

By selecting the 'Evaluation' icon for any device on the 'Overview Page', a new page will be displayed with a graph of all the actual data points. The user can zoom into specific time periods and data

points at any time. By double clicking, the whole view can then be restored.

Date range set manually

Temperature

Click inside the plot to reset zoom.

TAR 3260 (TARx260-2)

Refresh

Export CSV

Setpoint 1 [°C]

For a more detailed view of any specific area on the graph using the mouse, click and hold at the start position of the data range that is desired. The selected area will be zoomed.

Date and time of the displayed temperature

Copyright © 2013 - 2018 by ELREHA GmbH
Website V2.5.10 BETA | Service Y1.22.8 J | Package V3.5.10

Page 'Sorting of controllers'

On this page the controller list displayed on the start page can get sorted using drag and drop.

Home Plant data Settings

System configuration

Fault signal forwarding

General

Email Account

Plant log

Access to IT data

Logbook

Sorting of controllers

Save

Overview	Line / Address
TAR 3260	1 / 77
GER	1 / 5
VPR5240-2	2 / 1
SMZ Nummer 1	1 / 79

Changes can get saved here

Overview about the settings of all Controllers

On this page all configured controllers will be shown with their subdirectories and set/settable parameters.

Grey fields indicates that the value has not yet been read and cannot be changed. Each controller type is displayed individually.

Use the 'TAB' key to shift focus from field to field. Any new entries will only be saved by selecting the 'Save' button on the page.

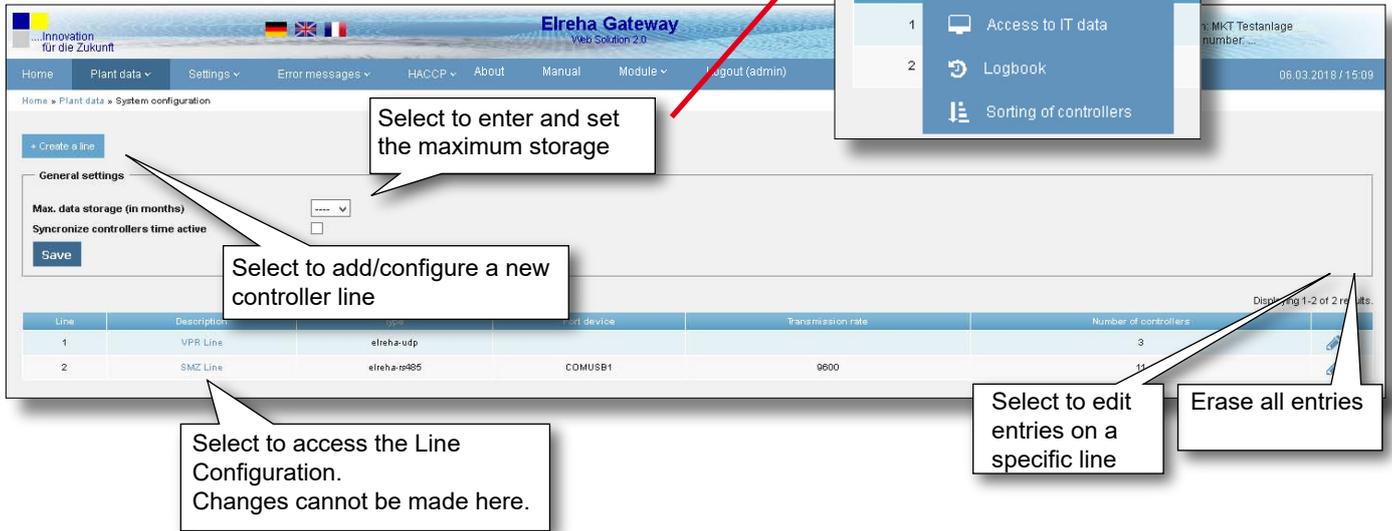
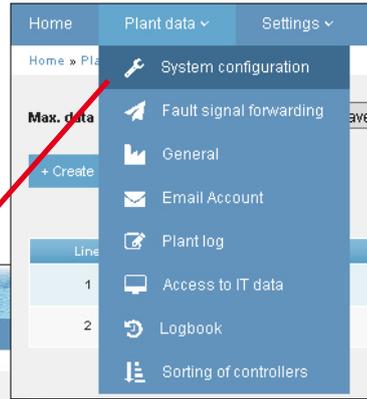
In the VPR system integrated cold storage controllers will be displayed in the VPR directory under "Cold storage controllers".

Function Pages

In the menu 'Plant data' you can find all necessary settings for the configuration of the ELREHA Gateway.

Page 'System configuration'

At this page you will find the overview with information about the used interfaces and the number of connected controllers.



Page 'Line'

Use this page to enter the controllers which are connected to the ELREHA Gateway.

Basic Entries

Description

Name assigned to the connection.

Type

Data connection type being utilized.

Port device

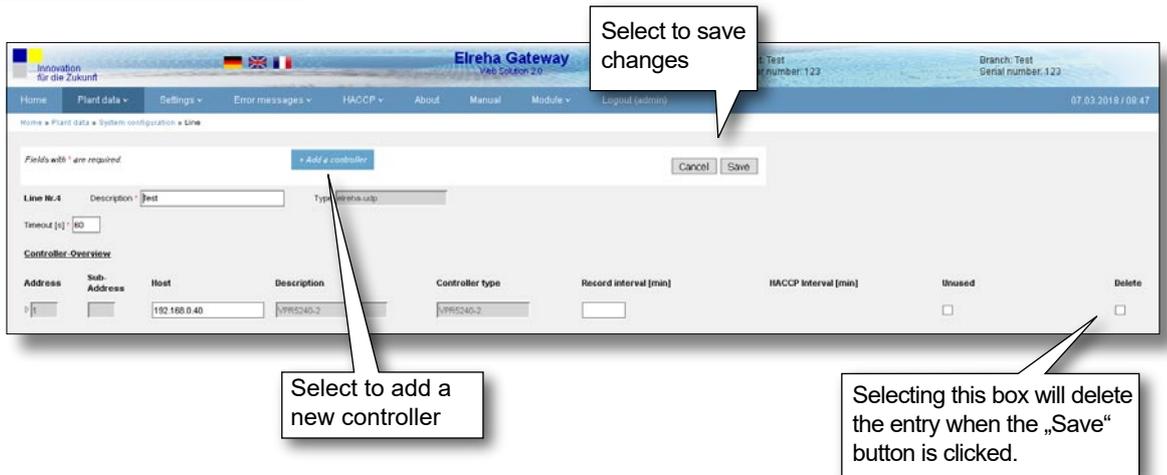
Method of interface (Ex. USB, etc.).

Timeout

Remaining time until time-out expressed in seconds.

Transmission rate

Maximum transmission speed in Baud, e.g. 9600, 57600



Under the 'Controller List', all controllers that are entered will be listed. Only the host and the recording intervals can be changed in this list.

Adding a new line with new controllers

Recording Settings

- Actual temperature 1
- Actual temperature 2
- Actual temperature 3
- Actual temperature 4
- Actual temperature 5
- Virtual temperature value
- Actual Overheat Temperature
- Current setpoint
- Actual Value of the analog output
- Opening EEX-Valve average
- Digital input 1
- Digital input 2
- Relay status 1
- Relay status 2
- Relay status 3
- Relay status 4

HACCP-Settings

- Actual temperature 1
- Actual temperature 2
- Actual temperature 3
- Actual temperature 4
- Actual temperature 5
- Virtual temperature value

Information and Warning Icons:

- When creating a new line, the correct interface method must be selected, (Ex. USB0, etc.).
- In order to connect an SMZ device to a line, all other controllers must be separated and configured as 'Slave' devices to the SMZ.

Adding a new line with VPR

Is a VPR selected at this line, only cold storage controllers can be integrated to the VPR.

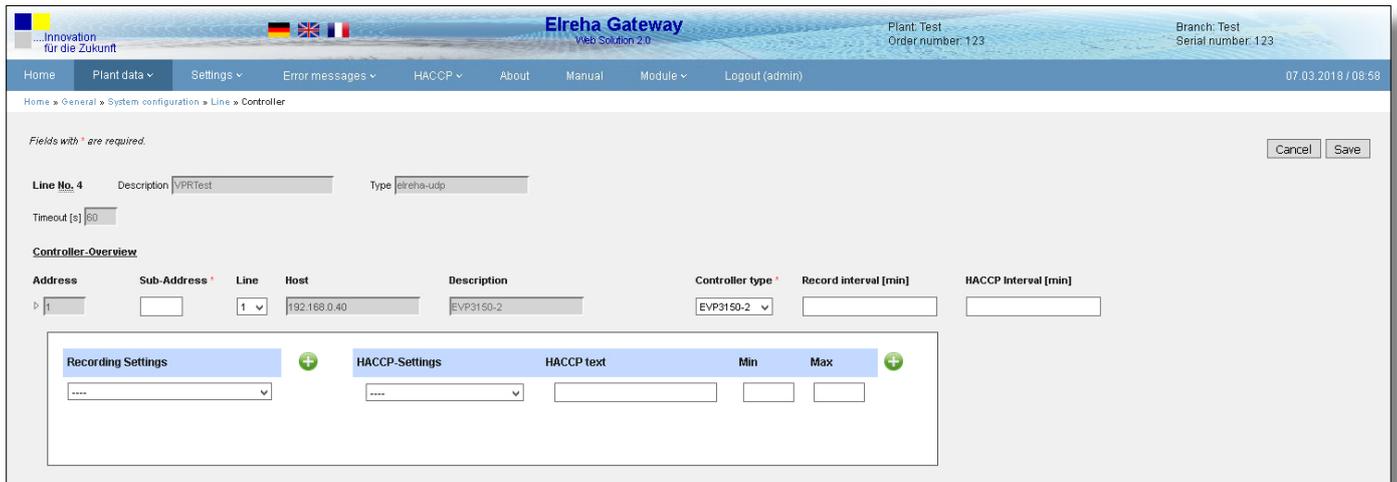
min. 8 sec.

Select elreha-udp here

IP-Address and port VPR. Format: IP:Port. If no port is given, the default port of the VPR will be used (55555).

Here the page will be opened which can be used to configure a new control line.

After a new line has been created for a VPR, this page appears after the call, which also contains an overview of the controllers connected to the VPR.



Page 'Access to IT data'

On this page you will find all settings which are necessary to integrate the ELREHA Gateway into a network.

DHCP

When the DHCP box is selected, the IP address, the subnet mask, and the gateway will be applied automatically. The same information will need to be entered manually if this box is not selected.

IP Address

Address in the network

Subnet mask

Mask setting of the network

Gateway

IP address for the outside connection

DNS

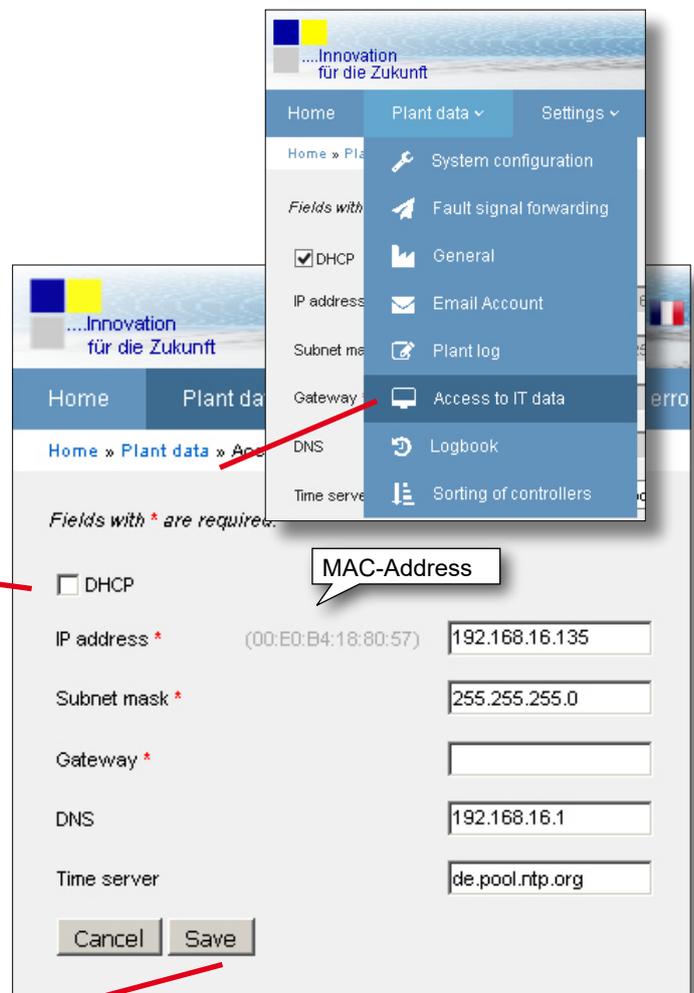
Nameserver

Time server

Server for synchronization of the time of day, e.g.: de.pool.ntp.org

With 'Save' all parameters will be saved

 After saving, the server will reboot in order to apply the changes. The server will not be accessible during this time.



 Standard HTTP access occurs via port 80, via Port 443 can be accessed by HTTPS (Hypertext Transfer Protocol Secure) to the Gateway. Depending on which port is enabled in the customer's network, the access can be enforced via HTTP or HTTPS. If both ports are unlocked, the access is possible via HTTP or HTTPS.

Page 'Fault signal forwarding'

With the link 'Add signal forwarding' a configuration page will be called up.

Channel

Select the method to forward the message.

Description

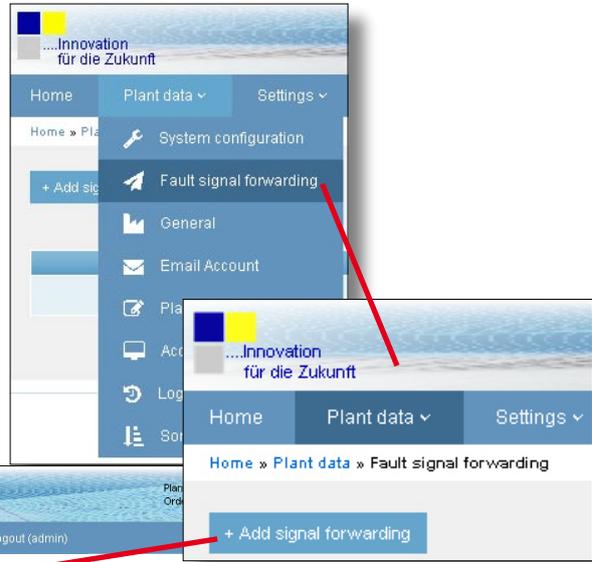
Select to enter a comment or description.

Days of the week

Select which days to enable message forwarding.

from - to

Select to define the period within which messages will be forwarded.



Fields with * are required.

Forwarded as * E-Mail language

Description *

Days of the Week * Mon Tue Wed Thu Fri Sat Sun

From - To * -

Time Control message Time must be from 00:00 to 23:59

Select to test the current email settings. The existing settings for mailserver and email account will be used.

Select to save and changes.

- System
 - Line 1: System
 - 1/1 VPR Verbundsteuerung (VPR) (1/2)
 - 1/1-1 Kühlraum 1 (EVP3167)
 - Line 3: System
 - 3/2 Meih EVP 1140 (EVP1140)
 - 3/45 SMZ (SMZ)
 - 3/66 EVP3150-2 (EVP3150-2)
 - 3/77 TAR 3260 (TARx260-2)

Each device can be assigned an individual error message to be forwarded.

- 0 - No failure
- 1 - Breakage Sensor 1: Istwert 1
- 2 - Short-circuit Sensor 1: Istwert 1
- 3 - Over temperature Sensor 1: Istwert 1
- 4 - Under temperature Sensor 1: Istwert 1
- 5 - Breakage Sensor 2: Isewert 2
- 6 - Short-circuit Sensor 2: Isewert 2
- 7 - Over temperature Sensor 2: Isewert 2
- 8 - Under temperature Sensor 2: Isewert 2
- 9 - Optocoupler 1
- 10 - Optocoupler 2
- 11 - Break current input
- 12 - Short-circuit current input
- 10001 - Timeout

Select the failure message to be forwarded.

To *

cc

bcc

**Email language: adjustable to: email recipient
cc: copy to
bcc: hidden copy to**

Host

SMTP mailserver

Connection Security

Here the corresponding methods can be selected

SMTP-Port

Mailserver port

User / Password

The necessary data for transmission

Plant: Test
Order number: 123
Branch: Test
Serial number: 123
15.02.2018 / 08:47

Home » Plant data » Fault signal forwarding

Displaying 1-1 of 1 result.

Description	Forwarded as	Days of the Week	From - To
test_160	email	Mon - Tue - Wed - Thu - Fri - Sat - Sun	00:00 - 23:59

When the 'Fault Signal Forwarding' page is opened, any existing entries will be displayed in an overview list. This can be edited at any time.

Page 'Logbook'

On the page 'Logbook' controller and parameter changes as well as special events are logged.

Select the time range to display.

Printing

Date / Time	Controller name	Controller type	Parameter	Old value	New value	User	Description
29.07.2016 / 11:58	----	----	----	----	----	admin	plant.xml changed
29.07.2016 / 11:58	----	----	----	----	----	admin	plant.xml changed
25.07.2016 / 16:22	----	----	----	----	----	admin	plant.xml changed
25.07.2016 / 16:22	----	----	----	----	----	admin	plant.xml changed
25.07.2016 / 16:22	----	----	----	----	----	admin	plant.xml changed
25.07.2016 / 16:18	----	----	----	----	----	admin	plant.xml changed
25.07.2016 / 16:18	----	----	----	----	----	admin	plant.xml changed
25.07.2016 / 16:18	----	----	----	----	----	admin	plant.xml changed
25.07.2016 / 16:18	----	----	----	----	----	admin	plant.xml changed
25.07.2016 / 16:18	----	----	----	----	----	admin	plant.xml changed
25.07.2016 / 16:17	----	----	----	----	----	admin	plant.xml changed
25.07.2016 / 16:17	----	----	----	----	----	admin	plant.xml changed
25.07.2016 / 16:17	----	----	----	----	----	admin	plant.xml changed
25.07.2016 / 16:16	----	----	----	----	----	admin	plant.xml changed
25.07.2016 / 16:16	----	----	----	----	----	admin	plant.xml changed

Page 'General'

Here all information about the plant can be entered.

URL to Gateway. Is then located as info in the fault forwarding emails

With 'Save' all entries will be stored

The information marked with '* ' will be displayed at the top right corner of each page.

Page "Email Account"

The email account used to send the fault signal emails is defined here.

Address of sender

Provided by the provider

Host smtp.strato.de SMTP Port 587 Connection security STARTTLS User test@elreha.de Password

Test mail to

Provided by the provider

Provided by the provider

User name mailaccount

Password

Here can be send a testmail to (xx@xx.xx)

Host
SMTP Mailserver

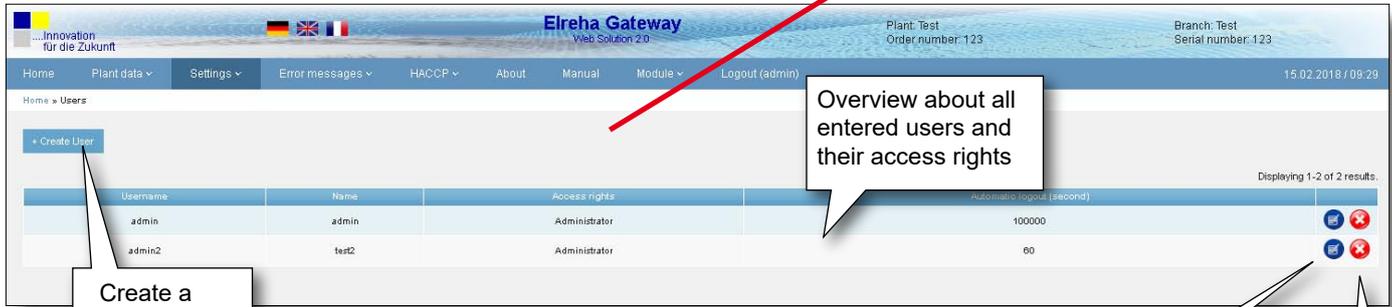
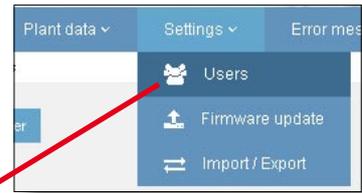
Connection security
The relevant protocols are defined here

SMTP Port
Mailserver Port

User / Password
The data required for transmission

Page 'Users'

This page is used to define and enter user access and rights. The system provides 4 levels of user access from 'Administrator' to 'Read Only'.

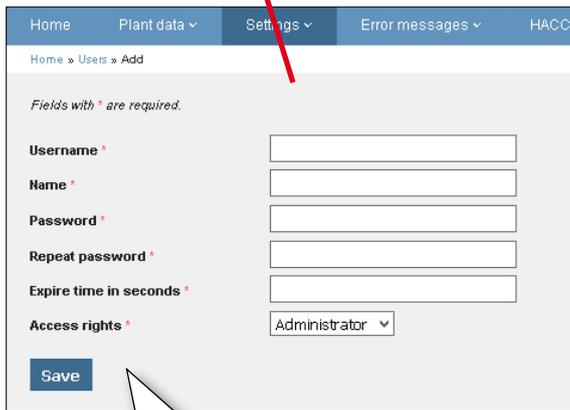


Overview about all entered users and their access rights

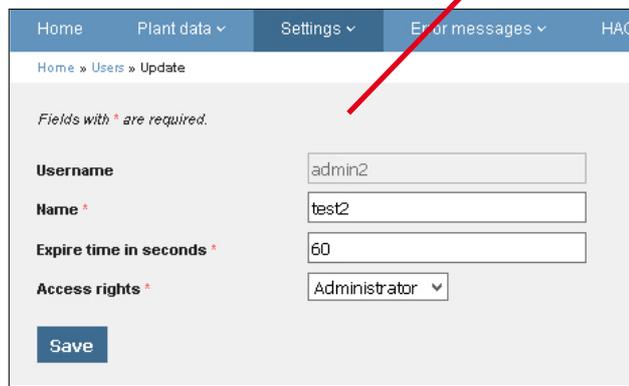
Create a new user

Change user entries

Delete user



All fields marked with '*' must be filled. With a click here, the new user will be confirmed and stored.



Access Rights

- 1 : Administrator
- 2 : Service
- 3 : Technician
- 4 : Customer / read only

1. Administrator Rights / Possible Settings

- All Access Rights
- Read User Information
- Adding User
- Erase User
- Edit User

2. Service Rights (rights 3 + 4 possible)

- Change Plant Configuration
- Erase Plant Configuration

3. Technician Rights (right 4 possible)

- Alarm Forwarding, setting and changing
- Erasing of set Alarm
- Write/Edit Controller Parameters

4. Customer / read only

- Read Current Failures
- Read Historic Failures
- Read set Alarm Forwardings
- Read Plant Configuration
- Read Controller Parameters



At least one access with administrator rights must be created. If this is not done and only the access right 2-4 are used, the ELREHA Gateway can not longer be fully administrated.



The preset user („admin“) should be replaced by a separate user when commissioning the ELREHA Gateway. To do this, a new user with „Administrator“ access rights needs to be created. The default user should then be deleted.

Page 'Plant Log'

Here each user is able to enter notes to keep track e.g. at which time changes has been done or problems have been encountered at specific times.

Add a new note

Overview listing about all entered notes

10 entries per list, here the next lists can be called up.

Subject	Date	User
test1	09.05.2017	admin
test2	09.05.2017	admin
test3	09.05.2017	admin
test4	09.05.2017	admin
test5	09.05.2017	admin
test6	09.05.2017	admin
test7	09.05.2017	admin
test8	09.05.2017	admin
test9	09.05.2017	admin
test0	09.05.2017	admin

Fields with * are required.

Date: 09.05.2017
User: admin

Subject *

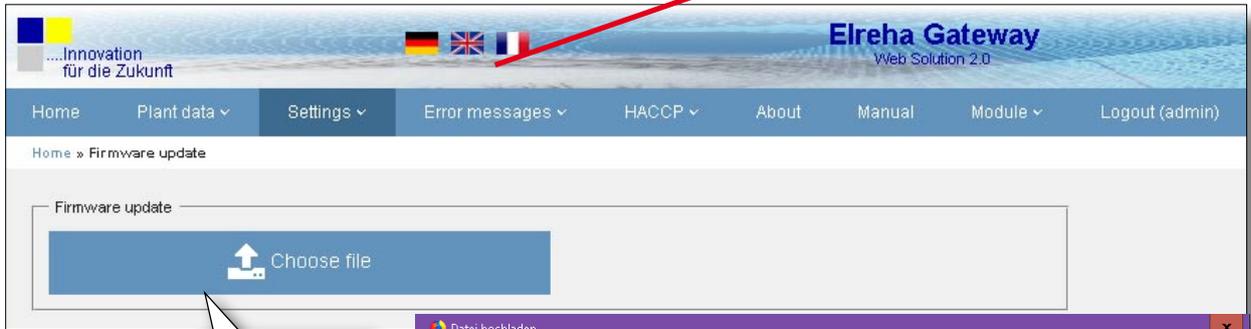
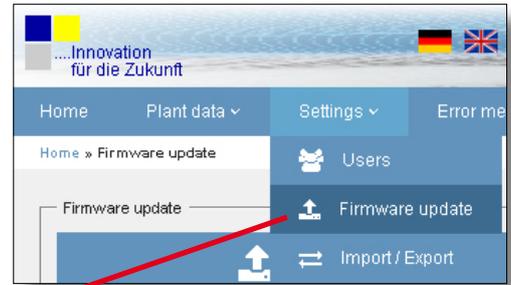
Note

Save

All fields marked with ' * ' must be filled.
Confirm the new entries with a click on 'Save'.

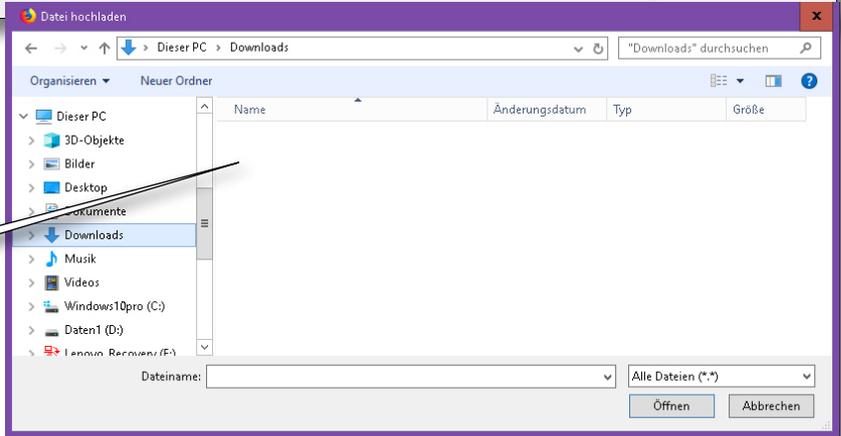
Page 'Firmware update'

On this page the firmware of the ELREHA Gateway can be updated.



Searching and selection of the update file

After the selection here or in another directory, the update will be started

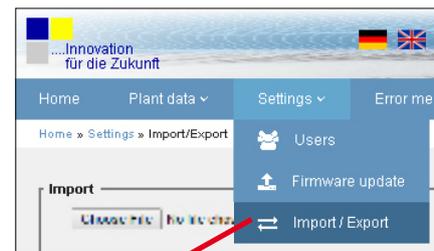


Page 'Import / Export'

On this page, complete records of the gateway can be imported and exported.

Contents of these records:

- HACCP database
- Database of the recorded values
- Plant configuration
- Registered users
- Preset error forwarding



i Any imports of records require a restart of the ELREHA Gateway to activate.



Search and select a .zip file for an import

After the selection the import will be started here

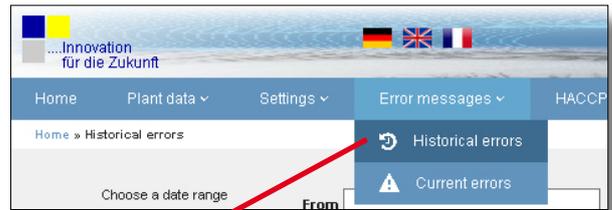
All settings and records can be exported here as .zip files

Page 'Historical errors'

This page offers an overview about all recorded alarm messages. These can be selected in a date range.



Current error messages are not displayed here!



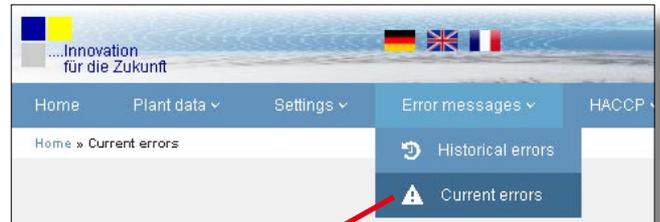
This screenshot shows the 'Historical errors' page. It features a table with columns for 'Appear', 'Disappear', 'Controller name', 'Forwarded', 'Comment 1', and 'Comment 2'. There are callouts explaining:

- 'Select time range for the list' pointing to the 'From' and 'To' date range inputs.
- 'Delete all entries' pointing to the 'Delete' button.
- 'Comments can be entered and saved here' pointing to the 'Comment 1' and 'Comment 2' input fields.

Appear	Disappear	Controller name	Forwarded	Comment 1	Comment 2
05.03.18 /15:05	06.03.18 /10:58	VPRS240-2	VPRS240-2	Timeout	
05.03.18 /15:04	06.03.18 /10:59	XML&TÜst Konfig	VPRS240-2	Asymmetric	
02.03.18 /10:54	05.03.18 /15:04	VPRS240-2	VPRS240-2	Timeout	

Page 'Current errors'

This page provides an overview of all current errors.



This screenshot shows the 'Current errors' page. It features a table with columns for 'Appear', 'Controller type', 'Controller name', 'Error', 'Forwarded', and 'Comment'. A callout explains:

- 'Comments can be entered and saved here' pointing to the 'Comment' input field.

Appear	Controller type	Controller name	Error	Forwarded	Comment
07.03.18 /10:39	VPRS240-2	VPRS240-2	:		
06.03.18 /11:00	VPRS240-2	VPRS240-2	:		
06.03.18 /10:59	VPRS240-2	XML&TÜst Konfig	: Asymmetric		
06.03.18 /10:59	VPRS240-2	XML&TÜst Konfig	: EmergOFF		

Page 'HACCP'

This page provides an overview of selected data points from various time periods. These can be printed at any time.

 For printing HACCP data, the browser must allow pop up windows for the Gateway Website.



Choose a date: Daily information Weekly information Monthly information Refresh

Currently displayed HACCP table: Choose a date range From: To:

Start printing

Here you can select any date, day, week and month overview

Select to update any changes to the dates or addition of new devices.

Here you can select the time range for printing of the HACCP table

Controller		June 2015							Daily information: 04.08.2016																		
		Mon	Tue	Wed	Thu	Fri	Sat	Sun	15	16	17	18	19	20	21	22	23										
11 HACCP		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12 Kaskade1	sensor 1	31.1	31.2	31.3	31.4	31.5	31.6	31.6	31.6	31.6	31.6	31.6	30.8	29.8	29.1	28.6	28.3	28.1	27.9	27.8	27.6	27.5	27.3	27.2	27.1	27.0	
12 Kaskade1	test 2	-6.6	-6.6	-6.6	-6.6	-6.6	-6.6	-6.6	-6.6	-6.6	-6.6	-6.6	-6.6	-6.6	-6.6	-6.6	-6.6	-6.6	-6.6	-6.6	-6.6	-6.6	-6.6	-6.6	-6.6	-6.6	
12 Kaskade1	sensor 3	-7.9	-7.9	-7.9	-7.9	-7.9	-7.9	-7.9	-7.9	-7.9	-7.9	-7.9	-7.9	-7.9	-7.9	-7.9	-7.9	-7.9	-7.9	-7.9	-7.9	-7.9	-7.9	-7.9	-7.9	-7.9	
12 Kaskade1	Virtueller Istwert	12.2	12.3	12.3	12.4	12.4	12.5	12.5	12.5	12.5	12.5	12.5	12.1	11.5	11.2	11.0	10.8	10.7	10.6	10.6	10.5	10.4	10.3	10.2	10.2	10.2	
12 Kaskade1	sensor 4	aus	aus	aus	aus	aus	aus	aus	aus	aus	aus	aus	aus	aus	aus	aus	aus	aus	aus	aus	aus	aus	aus	aus	aus	aus	
13 Normalkühlraum	Regelfühler	28.4	28.5	28.6	28.7	28.8	28.9	28.9	28.9	28.9	28.9	28.9	27.9	27.0	26.2	25.8	25.5	25.2	25.1	25.0	24.9	24.7	24.5	24.4	24.3	24.2	
13 Normalkühlraum	Abtaufühler	-9.2	-9.2	-9.2	-9.2	-9.2	-9.2	-9.2	-9.2	-9.2	-9.2	-9.2	-9.2	-9.2	-9.2	-9.2	-9.2	-9.2	-9.2	-9.3	-9.3	-9.3	-9.3	-9.3	-9.3	-9.3	
13 Normalkühlraum	Virtueller Istwert	aus	aus	aus	aus	aus	aus	aus	aus	aus	aus	aus	aus	aus	aus	aus	aus	aus	aus	aus	aus	aus	aus	aus	aus	aus	
14 MoPro Regal	Istwert 1	28.2	28.3	28.5	28.5	28.5	28.8	28.8	28.8	28.8	28.8	28.8	29.0	28.8	28.0	27.6	27.2	27.0	26.8	26.8	26.6	26.5	26.4	26.2	26.1	25.9	25.9
14 MoPro Regal	Istwert 2	aus	aus	aus	aus	aus	aus	aus	aus	aus	aus	aus	aus	aus	aus	aus	aus	aus	aus	aus	aus	aus	aus	aus	aus	aus	
15 Lüftersteuerung	Fühler 1	19.6	19.6	19.8	19.9	19.9	20.0	20.1	20.2	20.2	20.1	19.2	18.4	17.6	17.2	16.7	16.6	16.3	16.1	16.1	15.8	15.8	15.6	15.5	15.5	15.5	
15 Lüftersteuerung	Fühler 2	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	

Symbols

- Break
- Short Circuit
- Failure
- No Connection
- Defrost

Colours:

- Temperature > max.
- Temperature < min.
- Defrost

From: To:

Pdf files can get exported to a USB flash drive, that is connected to the ELREHA Gateway

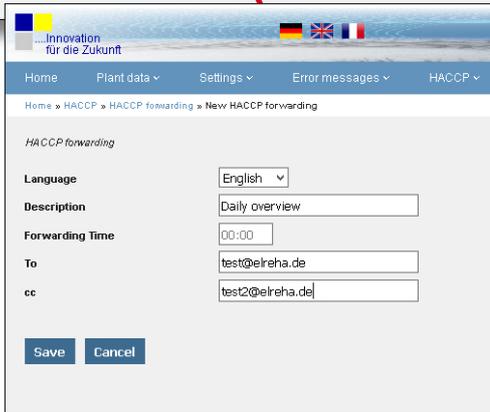
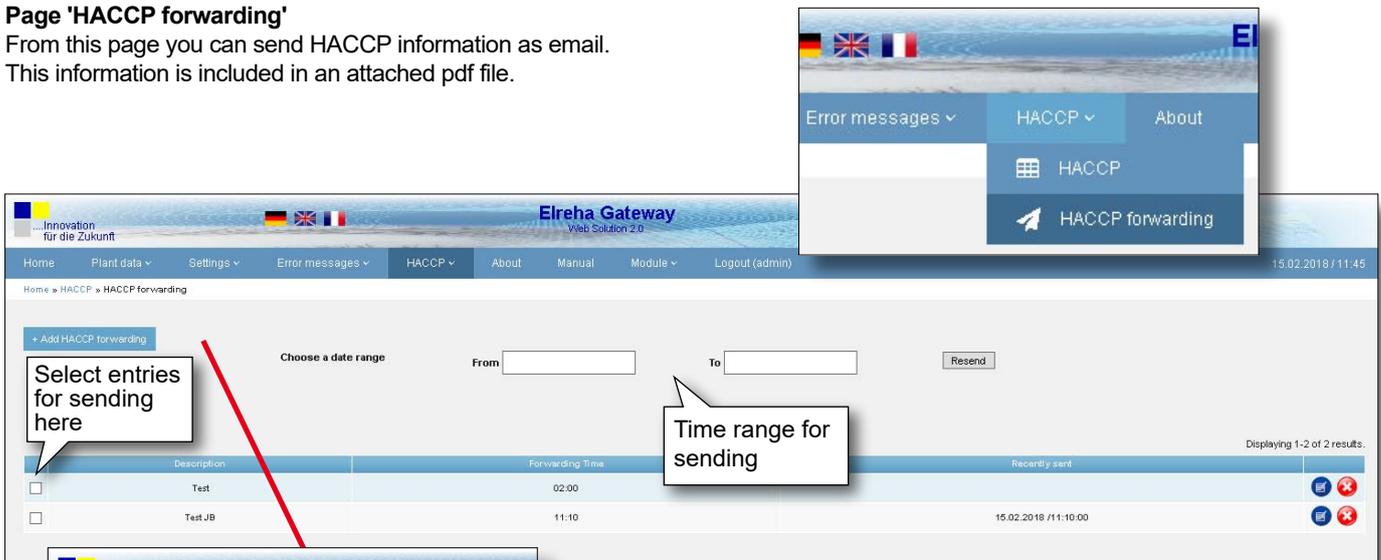
Controller Select all Clean all Select Daily information: 2015.06.08

<input checked="" type="checkbox"/> 1/1 BMT Test	<input checked="" type="checkbox"/> 1/2 TARx700-2	<input checked="" type="checkbox"/> 1/3 EVP1140	<input checked="" type="checkbox"/> 1/5 Walter	<input checked="" type="checkbox"/> 1/6 TARx260-2
<input checked="" type="checkbox"/> 1/7 Fleisch KR	<input checked="" type="checkbox"/> 1/8 Kaskaderegler a	<input checked="" type="checkbox"/> 1/9 TARx260-2	<input checked="" type="checkbox"/> 1/11 TARx610-2	<input checked="" type="checkbox"/> 1/12 USP
<input checked="" type="checkbox"/> 1/40 EVP 3150-2	<input checked="" type="checkbox"/> 1/41 MSR ECO	<input checked="" type="checkbox"/> 1/55 TARx260-2	<input checked="" type="checkbox"/> 1/56 SM501	

Select the device and HACCP data to be displayed.

Page 'HACCP forwarding'

From this page you can send HACCP information as email.
This information is included in an attached pdf file.



Language
German, English, French

Description
As you like

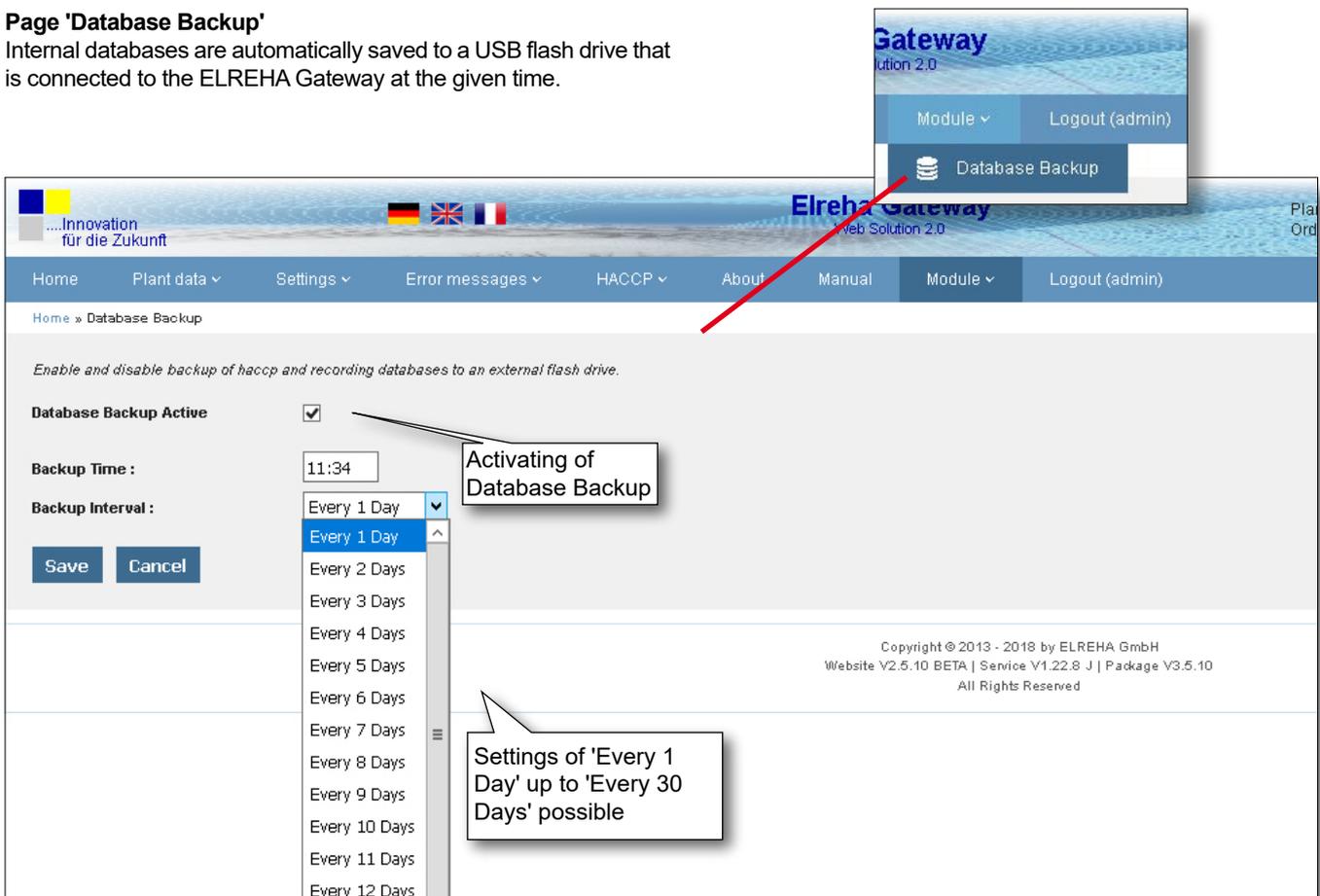
Forwarding Time
From 00:00 up to 23:59 o'clock

To
Recipient email address

cc
Carbon copy email address

Page 'Database Backup'

Internal databases are automatically saved to a USB flash drive that is connected to the ELREHA Gateway at the given time.



Manual

Here you can open the manual for this product



Logout

Due to safety reasons, it is recommended to log out after every session.



CONNECTION INFORMATION & SAFETY INSTRUCTIONS



The guarantee will lapse in case of damage caused by failure to comply with these operating instructions! We shall not be liable for any consequent loss! We do not accept liability for personal injury or damage to property caused by inadequate handling or non-observance of the safety instructions! The guarantee will lapse in such cases.

This manual contains additional safety instructions in the functional description. Please note them!



- Before installation: Check the limits of the ELREHA Gateway (see tech. data), e.g.:
 - Supply voltage
 - Environmental limits for temperature/humidity. Outside these limits malfunction or damages may occur.
- Mounting the controller close to power relays is unfavourable. Strong electro-magnetic interference, malfunction may occur!
- Take care that the wiring of interface lines meets the necessary requirements.



If you notice any damage, the product may not be connected to mains voltage! **Danger of Life!**

A riskless operation is impossible if:

- The device has visible damages or doesn't work
- After a long-time storage under unfavourable conditions
- The device is strongly dragged or wet
- After inadequate shipping conditions
- Never use this product in equipment or systems that are intended to be used under such circumstances that may affect human life. For applications requiring extremely high reliability, please contact the manufacturer first.
- **Electrical installation and putting into service must be done from qualified personnel.**
- **During installation and wiring never work when the electricity is not cut-off ! Danger of electric shock!**
- **Never operate unit without housing. Danger of electric shock!**
- Please note the safety instructions and standards of your place of installation!



This device complies with the requirements of EU directives 2014/30/EC and 2014/35/EC as well as the applicable standards. The declaration of conformity is deposited at the following address:

ELREHA Elektronische Regelungen GmbH
Schwetzinger Str. 103 D-68766 Hockenheim Phone: +49 6205 2009-0 E-mail: sales@elreha.de



NOTICE

This manual has been set up with care and our best knowledge. We reserve the right to change this manual for any reason, including but not limited to technical updates. Please make sure your device complies with the model described herein.

Date of commissioning		
Server Number		
Contact Person IT / Phone Number		
Notes		
	Entry	Example
Network		
DHCP / static		
IP address Gateway internal		(e.g. 192.168.1.2)
Subnet mask		(e.g. 255.255.255.0)
DNS		(e.g. 192.168.1.1)
Default Gateway		(e.g. 192.168.1.1)
Time server		(e.g. de.pool.ntp.org)
IP address Gateway external		
Port 80 internal: Forwarding to external port		
Port 443 internal: Forwarding to external port		
Port 22 internal: Forwarding to external port		
Email		
Return Address		(e.g. störung_kaelte@mustermann.de)
User Name		(e.g. störung_kaelte@mustermann.de)
Password		(e.g. secret)
Outgoing Mail Server		(e.g. smtp.strato.de)
Port Outgoing Mail Server		(e.g. 465, 587,...)
Security Setting Mail Server		(e.g. no, SSL, STARTTLS)
Register Address 1		(e.g. service@kaelte.de)
Register Address 2		(e.g. service@kaelte.de)
User 1		
User name		
Password		
Authorization		(e.g. Customer, Service, Technician, Administrator)
Time up to automatic logout		

	Entry	Example
User 2		
User name		
Password		
Authorization		(e.g. Customer, Service, Technician, Administrator)
Time up to automatic logout		
User 3		
User name		
Password		
Authorization		(e.g. Customer, Service, Technician, Administrator)
Time up to automatic logout		
Line 1		
Interface		(e.g. COM 1)
Baudrate		(e.g. 9600 Baud)
Timeout		
Controller 1		
Type		(e.g. EVP 1130)
Address		(e.g. 5)
Controller 2		
Type		
Address		
Controller 3		
Type		
Address		
Controller 4		
Type		
Address		
Controller 5		
Type		
Address		
Controller 6		
Type		
Address		

	Entry	Example
Controller 7		
Type		(e.g. EVP 1130)
Address		(e.g. 5)
Controller 8		
Type		
Address		
Controller 9		
Type		
Address		
Controller 10		
Type		
Address		
Controller 11		
Type		
Address		
Controller 12		
Type		
Address		
Controller 13		
Type		
Address		
Controller 14		
Type		
Address		
Controller 15		
Type		
Address		
Controller 16		
Type		
Address		
Controller 17		
Type		
Address		

	Entry	Example
Controller 18		
Type		(e.g. EVP 1130)
Address		(e.g. 5)
Controller 19		
Type		
Address		
Controller 20		
Type		
Address		
Controller 21		
Type		
Address		
Controller 22		
Type		
Address		
Controller 23		
Type		
Address		
Controller 24		
Type		
Address		
Controller 25		
Type		
Address		
Controller 26		
Type		
Address		
Controller 27		
Type		
Address		
Controller 28		
Type		
Address		

	Entry	Example
Controller 29		
Type		(e.g. EVP 1130)
Address		(e.g. 5)
Controller 30		
Type		
Address		
Controller 31		
Type		
Address		
Controller 32		
Type		
Address		
Controller 33		
Type		
Address		
Controller 34		
Type		
Address		
Controller 35		
Type		
Address		
Controller 36		
Type		
Address		
Controller 37		
Type		
Address		
Controller 38		
Type		
Address		
Controller 39		
Type		
Address		