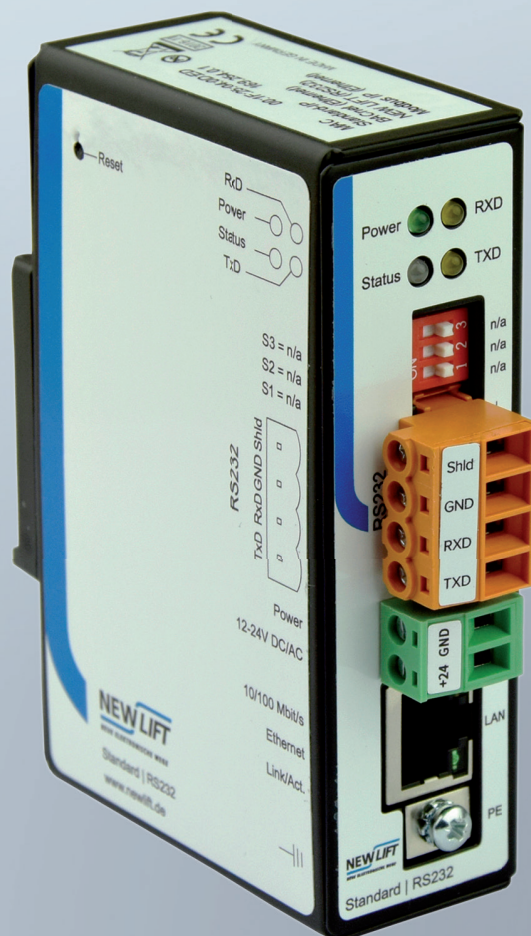




Universal-Gateway

- BACnet
- Modbus IP



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1 General

The *UNIVERSAL GATEWAY* allows the communication between the two devices which use different communication protocols. This document inform you about the first steps of the installation.

1.1 Abbreviations, characters and symbols used

Symbol / abbreviation	Meaning
UGW	Universal Gateway
FST	Field bus controller
	Operational instructions Perform the tasks that follow this symbol in the specified order.
•	Action step under the respective operational instruction
	Warning notice This symbol is located in front of safety-relevant information
	Information notice This symbol is located in front of relevant information.

1.2 Notation

Notation	Meaning
Bold	› Designations of switches and actuators › Input values
<i>Italics</i>	› Captions › Cross references › Designations of functions and signals › Product names
<i>Bold italics</i>	› Remarks
LCD font	› System messages of the controller

1.3 Further information

Other current manuals can be found in the download area of our website at <https://www.newlift.de/downloads-311.html>

1.4 How to contact us

If, after referring to this manual, you still require assistance, our service line is there for you:

Phone	+49 89 - 898 66 - 110
E-mail	service@newlift.de
Mon. - Thurs.:	8:00 a.m. - 12:00 p.m. and 1:00 p.m. - 5:00 p.m.
Fr:	8:00 a.m. - 3:00 p.m.

2 Safety

2.1 General safety regulations

The *UNIVERSAL GATEWAY* may only be operated in perfect working condition in a proper manner, safely and in compliance with the manual, the valid accident prevention regulations and the guidelines of the local power company.



This manual is a supplement to the FST manual and the FST Installation and Commissioning manual whose safety guidelines must always be observed.

2.2 Handling electronic assemblies

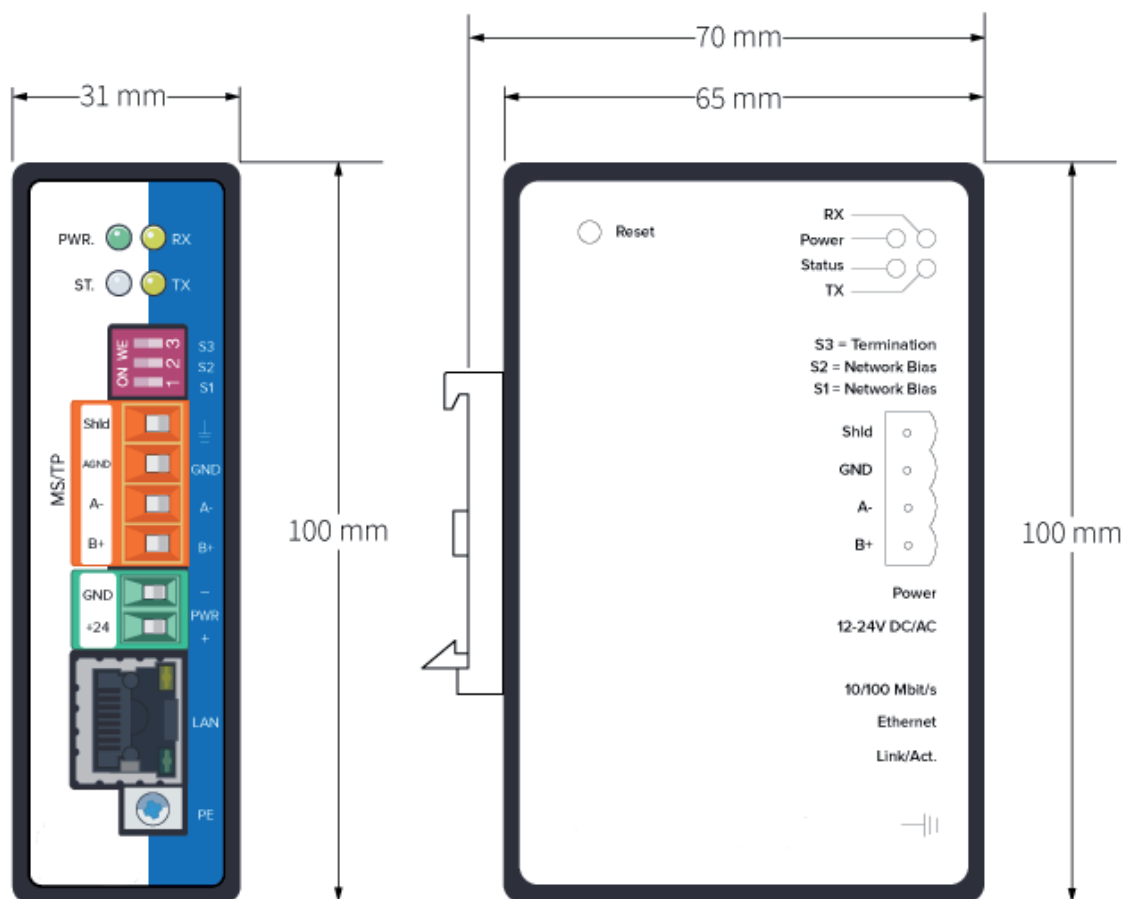


Electrostatic charging

- ▶ Keep the electronic assembly in its original packaging until installation to avoid damages.
- ▶ Touch a grounded piece of metal before opening the original packaging to discharge any static electric charge on the electronic assembly.
- ▶ During work on electronic assemblies, periodically repeat this discharge procedure!
- ▶ Fit all bus inputs and outputs that are not in use with a terminator to avoid malfunctions.

3 Technical data

3.1 Dimensions



3.2 Specification

Parameter	Value
Operating voltage	12-24V AC/DC
Current consumption	1000 mA max
Weight	250 g
Dimensions	100 mm, width: 31 mm, deep: 70 mm (including DIN-top-hat rail adapter)
Ambient temperature	0...45°C, 32...113°F
Ambient humidity	20...80 percent relative humidity, non-condensing
Assembly	DIN-top-hat rail TS35 according to EN50022

3.3 Connections

Connection	Description
PE	PE protective conductor-connecting terminal with M3 bolt
LAN	RJ45 10/100 MBit Ethernet The link displays a LAN connection 10/100 displays the connection speed
PWR - Power	Power supply 1 V+ +12 to +24V DC or 12 to 24V AC 2 V- GND or 12 to 24V AC
COM1	RS232 1 TxD transmission line of RS232 interface 2 RxD receiving lines of RS232 interface 3 GND ground connection of RS232 interface 4 Shld ground connection of the cable screen is with PE
DIP-switch	1 not used / OFF 2 not used / OFF 3 not used / OFF
LED	1 Power, flashes as soon as the device is connected to the appropriate operating voltage 2 Flashes when the device receives data 3 Multicolor Status LED 4 Flashes when the device transmits data

4 Commissioning

The Gateway provides an integrated and convenient web-server for configuration. This document describes the needed steps to access the web server.

Standard setting at delivery

Ip address: **169.254.0.1**

User name: **gw**

Password: **GATEWAY**

4.1 Conditions

You need the following tools to install the Gateway:

- › This instruction (included with delivery)
- › Notebook-PC with the following specifications:
 - » an integrated or the external network card,
 - » installed web browser,
 - » installed PDF-Reader for example Foxit PDF-Reader, PDF-XChange Viewer, Adobe Acrobat Reader
 - » a crossed network cable.

4.2 Electrical installation



***The opening of the housing invalidates the warranty!
Do not open the housing. There are no controls inside the housing.***



***Incorrect installation invalidates the warranty!
Please observe the technical specifications!***

- ▶ Connect the Gateway to a power-supply according to the technical specification.
See chapter „3.2 Specification“, on page 7.

An international power supply is available if required (optional).

4.3 Ethernet network installation



Do not connect to a network, before you have configured Gateway completely. Use for the configuration the crossover cable.

- ▶ Configure Gateway using a notebook
See chapter „4.4 Configure Gateway“, on page 10.
- ▶ Connect the network cable Ethernet (RJ-45 connection) with the Gateway.
 - Use the cable CAT5 UTP or STP (or equivalent).
 - Avoid the parallel installation to power lines, such as motors and frequency inverters, usw.

4.4 Configure Gateway

4.4.1 Establish a connection to the web server

The webserver provides configuration settings in the form of websites.

For the access to internal webserver IP-connection must be established between notebook and Gateway.



Crossover Cable



Please use the crossover cable.
The cable is not included in the delivery.

- ▶ Connect a crossover cable at the LAN-connection (RJ45) of the Gateway.
- ▶ Activate the DHCP-Server (optional)
 See „Activate DHCP-Server“, on page 14
- ▶ Connect a crossover cable at your notebook PC.

The IP address is assigned automatically.

Using a manually assigned IP-address

If you want to use a manual input of IP address:

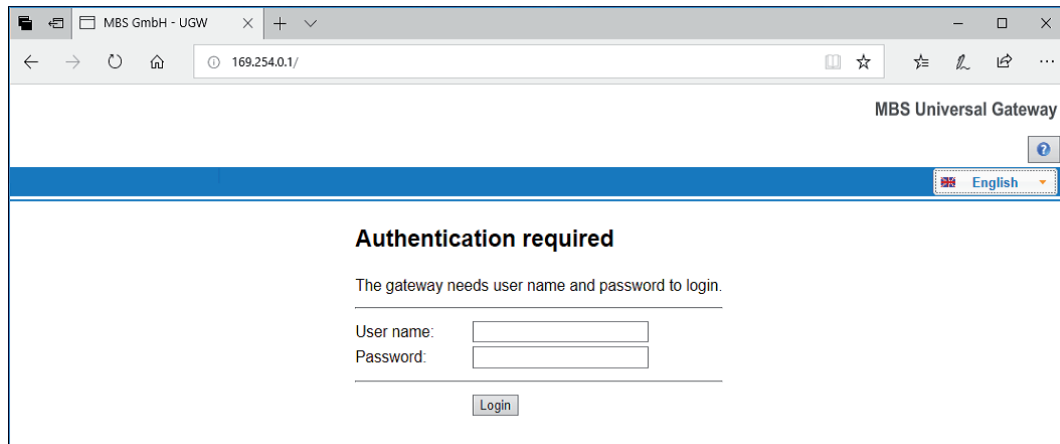
- ▶ Set your notebook PC via the Windows system settings as follows:

IP address:	169.254.0.2 (or higher)
Subnet mask:	255.255.0.0
Standard-Gateway:	do not enter

4.4.2 Call Gateway web server

To access the configuration sites of Gateway

- ▶ Connect Gateway and Laptop with the crossover cable
See chapter „4.4.1 Establish a connection to the web server“, on page 10.
- ▶ Start your preferred web-browser via notebook
- ▶ Enter the IP address in the address line **169.254.0.1**.



- ▶ Enter the user name and the password for the authentication.



Please pay attention to upper and lower case letters!

Standard setting at delivery:

User name: **gw**

Password: **GATEWAY**

The program starts and the window „UGW Overview“ will be displayed.

UGW

General	UGW-C	NEW LIFT	BACnet	Modbus IP	Help
---------	-------	----------	--------	-----------	------

General

- Overview
- Details
- IP-Network
- System time
- Dropbox
- Web-Services
- E-Mail
- Password
- Backup/Restore
- Update
- Restart

UGW Overview

UGW				
Type:	Nano			
Name:	UGW			
Location:				
Description:	Universal Gateway			
System				
Status LED:	Ok			
System start:	Tuesday, 17.07.2018 12:18:55			
Datapoints:	194 / 200			
CPU load:	2 %			
Free system memory:	19 / 32 MByte			
Drivers				
State	Route	Type	Name	Info
Online	1	ugwc	UGW-C	
Online	1420	fst	NEW LIFT	COM1
Online	940	bac	BACnet	
Online	860	mbtcp	Modbus IP	

4.4.3 Change the password

- ▶ Call up Gateway web server
See chapter „4.4.2 Call Gateway web server“, on page 11
- ▶ Choose under the menu item **General** the submenu **Password**.
The window *Change password* appears.

UGW

General	UGW-C	NEW LIFT	BACnet	Modbus IP	Help
----------------	-------	----------	--------	-----------	------

General

- Overview
- Details
- IP-Network
- System time
- Dropbox
- Web-Services
- E-Mail
- Password
- Backup/Restore
- Update
- Restart

Change password

Parameter	Value
User name:	gw
Current password:	<input type="password"/>
New password:	<input type="password"/>
Retype password:	<input type="password"/>
<input type="button" value="Save"/>	

- ▶ Enter the changed password data and click the button **Save**.

4.4.4 Change IP Address

- ▶ Call up Gateway web server
See chapter „4.4.2 Call Gateway web server“, on page 11
- ▶ Choose under the menu item **General** the submenu **IP-network**
The window *IP-network settings* appears.
- ▶ Change the settings by entering the required IP address, the netmask and the Default Gateway.

UGW

General	UGW-C	NEW LIFT	BACnet	Modbus IP	Help
---------	-------	----------	--------	-----------	------

General

- Overview
- Details
- IP-Network
- System time
- Dropbox
- Web-Services
- E-Mail
- Password
- Backup/Restore
- Update
- Restart

IP network settings

Parameter	Value
Network adapter LAN1	
MAC address:	00:1F:25:04:09:BE
IP address:	<input type="text" value="169.254.0.1"/>
Netmask:	<input type="text" value="255.255.0.0"/>
Default gateway:	<input type="text" value="NONE"/>
Network name info	
Hostname:	<input type="text" value="ugw-c"/>
Nameserver 1:	<input type="text"/>
Nameserver 2:	<input type="text"/>
Services	
Webserver access:	<input type="text" value="http and https (80/443)"/> ▼
<input type="button" value="Save"/>	

- ▶ Click the „Save“ button to save the changes.

4.4.5 Resetting Gateway

If you do not know the IP address, you can determine and change the IP address using following options.

Reset with Default IP address

- ▶ Press the reset key of the Gateway and hold the button for at least 5 seconds, but no more than 10 seconds.
 Within the first 5 seconds of pressing the status LED flashes red, then green.
 The Gateway is set to the default IP address until the next restart. (169.254.0.1).



Reset key

Activate DHCP-Server

- ▶ Press the reset key for over 10 seconds, but no more than 15 seconds.
 The status LED starts blinking orange.
 The Gateway is set to the standard IP and the DHCP server is activated.
 While the DHCP server is active, the default IP address has been set. (169.254.0.1)

Restart Gateway

- ▶ Press the reset key for less than 5 seconds.
 The Gateway performs a restart. No communication takes place in this phase.

4.5 Start Gateway with the FST-2XT



Be sure that, the versions UNIVERSAL GATEWAY and FST-2XT fit together.

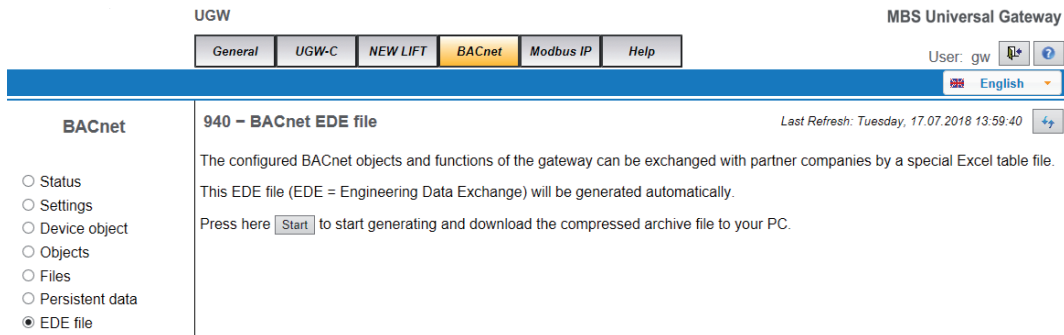
Version Universal Gateway	Version FST-2XT	Application
V02.03	0123	Minor signal requests. For car industry
V02.04	0124	Various signal requests. For the airport MUC

- ▶ Connect Gateway and the FST-2XT (X9) with the serial cable using the delivery package.
- ▶ Switch on FST-2XT and carry out the following settings in the FST Menu:
 - Select Main Menu / System / Factory Menu / Hidden Menus.
 - Using / set YES and confirm with .
 - Select Factory Menu / Settings /
 - For Miscel-3 set the following: 0000 0001
(Hardware Handshaking OFF)
 - For Miscel-15 set the following: 0000 0000
(Software Handshaking OFF)
 - Exit the menu and save the changed values.
- ▶ Connect computer/BACnet client and Gateway with an Ethernet cable.
- ▶ If necessary configure Gateway using a web browser and standard settings for IP address and Gateway.
- ▶ If necessary download PICS or EDE-files via the web browser.

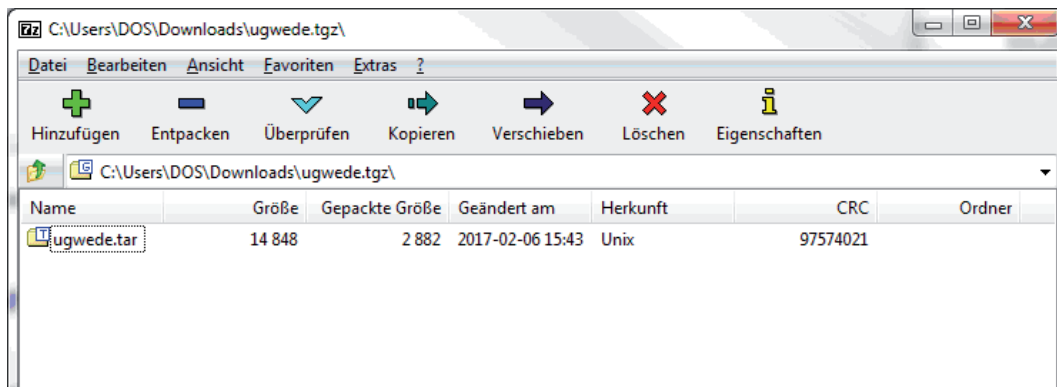
4.6 EDE - Engineering Data Exchange

4.6.1 Download EDE file

- ▶ Call up Gateway web server
See chapter „4.4.2 Call Gateway web server“, on page 11
- ▶ Choose under the menu item **BACnet or Modbus IP** the submenu **EDE file**
The screen 940 - BACnet EDE file or Modbus IP EDE file is displayed.



- ▶ Please select the button **Start**.



- ▶ If necessary change the proposed storage path, to save a file on your PC.

4.6.2 Signal list BACnet

	DE	EN
0	Fehler Steuerung	Failure FST
1	Etagenstand	current floor
2	Kabine steht bündig	car level
3	Kabine steht in Türzone	car in zone
4	Position Kabine	car position
5	Kabine unbündig	car un-level
6	Kabine Richtung	system direction
7	Weiterfahrt Richtung	departure direction
8	Kabine Fahrtrichtung	car physical direction
9	Kabinenlicht Ein	car light on
10	Status Kabinenlicht	car light status
11	Zustand Tür-A	door A status
12	Tür-A reversiert	door A reversing
13	Tür-A ist blockiert	door A blocked
14	Tür-A Schließfehler	door A close fail
15	Tür-A Riegelfehler	door A lock fail
16	Tür-A Zwangschließen	door A forced closure
17	Zustand Tür-B	door B status
18	Tür-B reversiert	door B reversing
19	Tür-B ist blockiert	door B blocked
20	Tür-B Schließfehler	door B close fail
21	Tür-B Riegelfehler	door B lock fail
22	Tür-B Zwangschließen	door B forced closure
23	Tür-A Lichtschranke aktiviert	photocell door A activated
24	Tür-A Reversierschalter aktiviert	reversing switch door A activated
25	Tür-B Lichtschranke aktiviert	photocell door B activated
26	Tür-B Reversierschalter aktiviert	reversing switch door B activated
27	Sicherheitskreis-Nothalt Kabine	safety circuit emergency stop car
28	Sicherheitskreis-Nothalt Schacht	safety circuit emergency stop shaft(static)
29	Sicherheitskreis-Tür-C Kontakt	safety circuit door-C gate
30	Sicherheitskreis-Tür-B Kontakt	safety circuit door-B gate
31	Sicherheitskreis-Tür-A Kontakt	safety circuit door-A gate
32	Sicherheitskreis-Sperrmittel-A	safety circuit door-A lock
33	Sicherheitskreis-Sperrmittel-B	safety circuit door-B lock
34	Sicherheitskreis-Zu	safety circuit closed
35	Leerlast	car empty load
36	Volllast	car full load
37	Überlast	car over load
38	Kommando liegt vor	command present
39	Notruf aktiviert	emergency call activated
40	Aufzug verfügbar	lift available
41	Außer Betrieb	out of order
42	Parkfahrt aktiv	park drive active
43	Lastmessung	loading value
44	Sammelstörung	collective fault
45	Störung Tür	door fault
46	Störung Antrieb	drive fault

	DE	EN
47	Störung Aufzugsteuerung	controller fault
48	Fehler Lichtschranke Tür-A	photocell door-A fault
49	Fehler Lichtschranke Tür-B	photocell door-B fault
50	Kabinenlicht Fehler	car light fault
51	Reserve Fehler 1	spare fault 2
52	Reserve Fehler 2	spare fault 3
53	Reserve Fehler 3	spare fault 4
54	Außensteuerung Aus	landing calls off
55	Brandfall	fire-recall
56	Brandfallfahrt aktiv	fire-recall, drive active
57	Brandfalletage erreicht	fire-recall, arrived in target floor
58	Feuerwehr	fireman-service
59	Feuerwehr, Kabine in Haupthaltestelle	fireman-service, in main floor
60	Feuerwehrfahrt aktiv	fireman-service, drive active
61	Wartungsmodus aktiv	maintenance active
62	Serviceschalter aktiviert	service switch activated
63	Inspektion aktiv	inspection mode on
64	Inspektionsfahrt aufwärts	inspection drive upwards
65	Inspektionsfahrt abwärts	inspection drive downwards
66	Rückholung aktiv	auxiliary mode on
67	Rückholfahrt aufwärts	auxiliary drive upwards
68	Rückholfahrt abwärts	auxiliary drive downwards
69	Montagemodus	installation mode
70	Fernabschaltung aktiviert	lift-off
71	Fernabschaltelage erreicht	lift-off, arrived in target floor
72	Kabinenventilator ein	car ventilator on
73	Betriebsmodus	operating mode
74	Innenprioritätsmodus aktiv	special mode car
75	Außenprioritätsmodus aktiv	special mode landing
76	Evakuierungsmodus aktiv	evacuation
77	Evakuierungsmodus Standby	evacuation, standby
78	Evakuierungsfahrt	evacuation, drive active
79	Evakuierungsetage erreicht	evacuation, complete
80	Notstrom	emergency power
81	Störung Notstromversorgung (USV)	emergency power low
82	Geschwindigkeit	lift speed
83	Temperatur Schaltschrank	control cabinet temperature
84	Fahrtenzähler	total trip count
85	Betriebsstundenzähler	total operating hours
86	Gruppen Mitglied	group member
87	In der Gruppe	in group
88	Normalmodus	normal mode
89	Normal Netz	normal power
90	Freier Eingangsport-1	free input Port-1
91	Freier Eingangsport-2	free input Port-2
92	Freier Eingangsport-3	free input Port-3
93	Freier Eingangsport-4	free input Port-4
94	Freier Eingangsport-5	free input Port-5

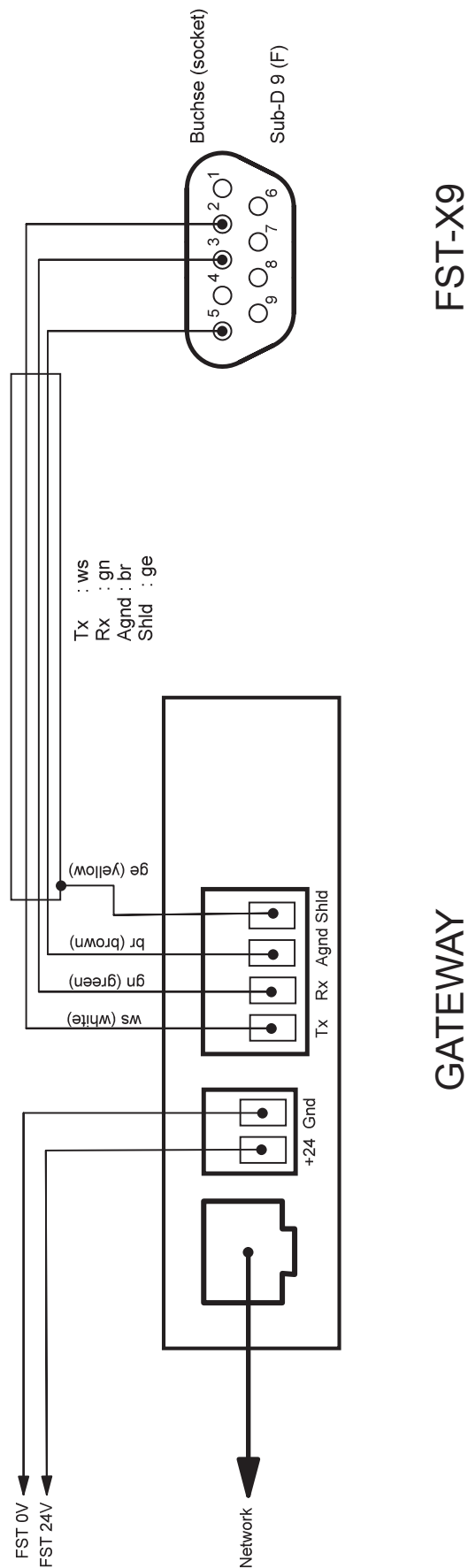
	DE	EN
95	Freier Eingangsport-6	free input Port-6
96	Freier Eingangsport-7	free input Port-7
97	Freier Eingangsport-8	free input Port-8
98	Freier Eingangsport-9	free input Port-9
99	Freier Eingangsport-10	free input Port-10
100	Freier Eingangsport-11	free input Port-11
101	Freier Eingangsport-12	free input Port-12
102	Freier Eingangsport-13	free input Port-13
103	Freier Eingangsport-14	free input Port-14
104	Freier Eingangsport-15	free input Port-15
105	Freier Eingangsport-16	free input Port-16

4.6.3 Signal list Modbus IP

	DE	EN
Status 0	Fehler Steuerung	Failure FST
Coil 1	Kabine steht bündig	car level
Coil 2	Kabine steht in Türzone	car in zone
Coil 3	Kabinenlicht Ein	car light on
Coil 4	Status Kabinenlicht	car light status
Coil 5	Tür-A reversiert	door A reversing
Coil 6	Tür-A ist blockiert	door A blocked
Coil 7	Tür-A Schließfehler	door A close fail
Coil 8	Tür-A Riegelfehler	door A lock fail
Coil 9	Tür-A Zwangschließen	door A forced closure
Coil 10	Tür-B reversiert	door B reversing
Coil 11	Tür-B ist blockiert	door B blocked
Coil 12	Tür-B Schließfehler	door B close fail
Coil 13	Tür-B Riegelfehler	door B lock fail
Coil 14	Tür-B Zwangschließen	door B forced closure
Coil 15	Tür-A Lichtschranke aktiviert	photocell door A activated
Coil 16	Tür-A Reversierschalter aktiviert	reversing switch door A activated
Coil 17	Tür-B Lichtschranke aktiviert	photocell door B activated
Coil 18	Tür-B Reversierschalter aktiviert	reversing switch door B activated
Coil 19	Sicherheitskreis-Nothalt Kabine	safety circuit emergency stop car
Coil 20	Sicherheitskreis-Nothalt Schacht	safety circuit emergency stop shaft(static)
Coil 21	Sicherheitskreis-Tür-C Kontakt	safety circuit door-C gate
Coil 22	Sicherheitskreis-Tür-B Kontakt	safety circuit door-B gate
Coil 23	Sicherheitskreis-Tür-A Kontakt	safety circuit door-A gate
Coil 24	Sicherheitskreis-Sperrmittel-A	safety circuit door-A lock
Coil 25	Sicherheitskreis-Sperrmittel-B	safety circuit door-B lock
Coil 26	Sicherheitskreis-Zu	safety circuit closed
Coil 27	Leerlast	car empty load
Coil 28	Volllast	car full load
Coil 29	Überlast	car over load
Coil 30	Kommando liegt vor	command present
Coil 31	Notruf aktiviert	emergency call activated
Coil 32	Aufzug verfügbar	lift available
Coil 33	Außer Betrieb	out of order
Coil 34	Parkfahrt aktiv	park drive active
Coil 35	Lastmessung	loading value
Coil 36	Sammelstörung	collective fault
Coil 37	Störung Tür	door fault
Coil 38	Störung Antrieb	drive fault
Coil 39	Störung Aufzugsteuerung	controller fault
Coil 40	Fehler Lichtschranke Tür-A	photocell door-A fault
Coil 41	Fehler Lichtschranke Tür-B	photocell door-B fault
Coil 42	Kabinenlicht Fehler	car light fault
Coil 43	Reserve Fehler 1	spare fault 2
Coil 44	Reserve Fehler 2	spare fault 3
Coil 45	Reserve Fehler 3	spare fault 4

	DE	EN
Coil 46	Außensteuerung Aus	landing calls off
Coil 47	Brandfall	fire-recall
Coil 48	Brandfallfahrt aktiv	fire-recall, drive active
Coil 49	Brandfalletage erreicht	fire-recall, arrived in target floor
Coil 50	Feuerwehr	fireman-service
Coil 51	Feuerwehr, Kabine in Haupthaltestelle	fireman-service, in main floor
Coil 52	Feuerwehrrfahrt aktiv	fireman-service, drive active
Coil 53	Wartungsmodus aktiv	maintenance active
Coil 54	Serviceschalter aktiviert	service switch activated
Coil 55	Inspektion aktiv	inspection mode on
Coil 56	Inspektionsfahrt aufwärts	inspection drive upwards
Coil 57	Inspektionsfahrt abwärts	inspection drive downwards
Coil 58	Rückholung aktiv	auxiliary mode on
Coil 59	Rückholfahrt aufwärts	auxiliary drive upwards
Coil 60	Rückholfahrt abwärts	auxiliary drive downwards
Coil 61	Montagemodus	installation mode
Coil 62	Fernabschaltung aktiviert	lift-off
Coil 63	Fernabschaltelage erreicht	lift-off, arrived in target floor
Coil 64	Kabinventilator ein	car ventilator on
Coil 65	Innenprioritätsmodus aktiv	special mode car
Coil 66	Außenprioritätsmodus aktiv	special mode landing
Coil 67	Evakuierungsmodus aktiv	evacuation
Coil 68	Evakuierungsmodus Standby	evacuation, standby
Coil 69	Evakuierungsfahrt	evacuation, drive active
Coil 70	Evakuierungsetage erreicht	evacuation, complete
Coil 71	Notstrom	emergency power
Coil 72	Störung Notstromversorgung (USV)	emergency power low
holding 0	Etagezustand	current floor
holding 1	Position Kabine	car position
holding 2	Kabine unbündig	car un-level
holding 3	Kabine Richtung	system direction
holding 4	Weiterfahrt Richtung	departure direction
holding 5	Kabine Fahrtrichtung	car physical direction
holding 6	Zustand Tür-A	door A status
holding 7	Zustand Tür-B	door B status
holding 8	Betriebsmodus	operating mode
holding 9	Geschwindigkeit	lift speed
holding 10	Temperatur Schaltschrank	control cabinet temperature
holding 11	Fahrtenzähler	total trip count
holding 12	Betriebsstundenzähler	total operating hours

5 Schematic diagram



6 Certificates

WSPCert Certificate

No. BAC-0220-01

WSPCert attests the conformance of the following BACnet implementation to the BACnet standard ISO 16484-5:2014. The attested conformance refers to the BACnet Interoperability Building Blocks (BIBBs) listed in the annex of this certificate.

The BACnet Building Controller (B-BC)
Universal Gateway - UGW
(Standard, Profinet, LON, KNX, x-link,
M-Bus, DALI)

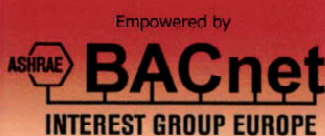
with the software version:

1.14

of
MBS GmbH
Römerstraße 15, 47809 Krefeld, Germany

has fulfilled the requirements according to the test standard ISO 16484-6, the BTL Test Plan 14.0 and the Certification Rules of the BACnet Interest Group Europe, see **DIAL Test Report No. PB-100404 rev2.**

The certificate is valid
until 2017/04/01



2016/12/20

Date of initial certification

A handwritten signature in black ink, appearing to be "G.L.", written over a horizontal line.

Dipl.-Ing. G. Weinmann
Head of Certification Body

WSPCert Dr.-Ing. Frank Bitter
Kapuzinerweg 7, 70374 Stuttgart, Germany,
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Certification body accredited
by the DAkkS according to
EN ISO/IEC 17065.





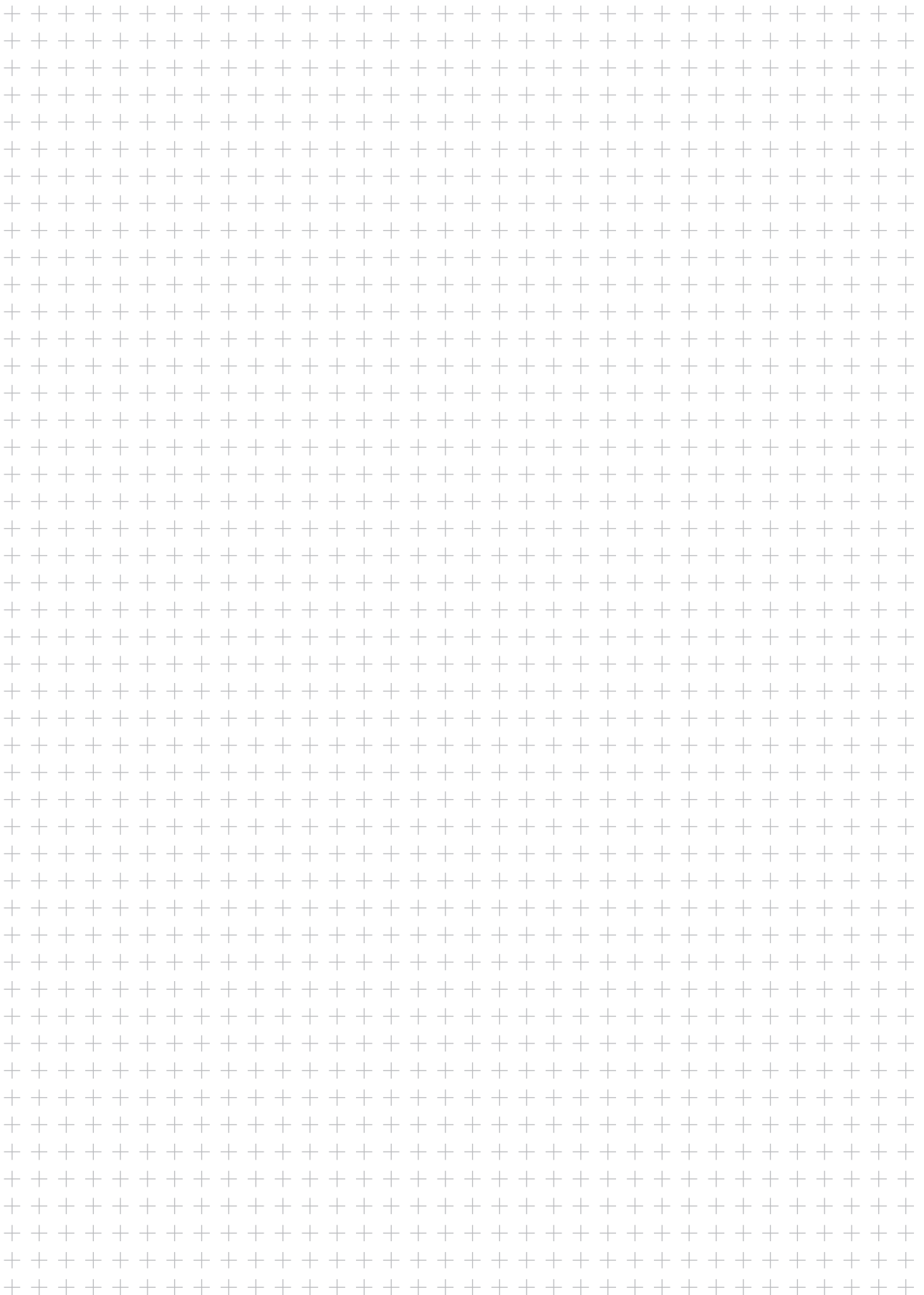
Annex to Certificate No. BAC-0220-01

The certification of the BACnet Implementation
Universal Gateway - UGW (Standard, etc.)
of **MBS GmbH**

refers to the BACnet Interoperability Building Blocks (BIBBs) listed below. BIBBs other than listed are not part of the certification.

BACnet Interoperability Building Blocks	
DS-RP-A	Data Sharing – Read Property – A
DS-RP-B	Data Sharing – Read Property – B
DS-RPM-A	Data Sharing – Read Property Multiple – A
DS-RPM-B	Data Sharing – Read Property Multiple – B
DS-WP-A	Data Sharing – Write Property – A
DS-WP-B	Data Sharing – Write Property – B
DS-WPM-B	Data Sharing – Write Property Multiple – B
DS-COV-A	Data Sharing – COV – A
DS-COV-B	Data Sharing – COV – B
AE-N-I-B	Alarm and Event – Notification Internal – B
AE-N-E-B	Alarm and Event – Notification External – B
AE-ACK-B	Alarm and Event – Acknowledge Alarm – B
AE-ASUM-B	Alarm and Event – Alarm Summary – B
AE-ESUM-B	Alarm and Event – Event-Enrollment Summary – B
AE-INFO-B	Alarm and Event – Information – B
AE-LS-B	Alarm and Event – Life Safety – B
AE-EL-I-B	Alarm and Event Management – Event Log – Internal – B
SCHED-I-B	Scheduling – Internal – B
SCHED-E-B	Scheduling – External – B
T-VMT-I-B	Trending – Viewing and Modifying Trends Internal – B
T-VMT-E-B	Trending – Viewing and Modifying Trends External – B
T-ATR-B	Trending – Automated Trend Retrieval – B
DM-DDB-A	Device Management – Dynamic Device Binding – A
DM-DDB-B	Device Management – Dynamic Device Binding – B
DM-DOB-B	Device Management – Dynamic Object Binding – B
DM-DCC-B	Device Management – Device Communication Control – B
DM-TS-B	Device Management – Time Synchronization – B
DM-UTC-B	Device Management – UTC Time Synchronization – B
DM-RD-B	Device Management – Reinitialize Device – B
DM-BR-B	Device Management – Backup and Restore – B
DM-R-B	Device Management – Restart – B
DM-LM-B	Device Management – List Manipulation – B

NOTES



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