



WAGO Software



WAGO DALI Configurator for the configuration of the DALI network and the DALI Multi-Master 753-647

© 2020 WAGO Kontakttechnik GmbH & Co. KG All rights reserved.

WAGO Kontakttechnik GmbH & Co. KG

Hansastraße 27 D-32423 Minden

Phone: +49 (0) 571/8 87 - 0 Fax: +49 (0) 571/8 87 - 1 69

E-Mail: info@wago.com

Web: <u>www.wago.com</u>

Technical Support

Phone:	+49 (0) 571/8 87 – 4 45 55
Fax:	+49 (0) 571/8 87 - 84 45 55

E-Mail: support@wago.com

Every conceivable measure has been taken to ensure the accuracy and completeness of this documentation. However, as errors can never be fully excluded, we always appreciate any information or suggestions for improving the documentation.

E-Mail: documentation@wago.com

We wish to point out that the software and hardware terms as well as the trademarks of companies used and/or mentioned in the present manual are generally protected by trademark or patent.

WAGO is a registered trademark of WAGO Verwaltungsgesellschaft mbH.



Table of Contents

1	Notes about this Documentation	6
1.1	Scope	6
1.2	Copyright	6
1.3	Symbols	7
1.4	Number Notation	9
1.5	Font Conventions	9
2	Important Notes	10
2.1	Legal Bases	10
2.1.1	Subject to Changes	10
2.1.2	Personnel Qualification	10
2.2	Safety Advice (Precautions)	10
2.3 2.2.1	Requirements	11
2.3.1	PC Baluware	11
2.3.2	WAGO I/O SYSTEM	11
2.3.4	Fieldbus Coupler/Controller Compatibility List	
3	WAGO DALL Configurator	1/
21	Overview of the Eccentral Europe	
3.1		14
321	Launching the WAGO DALL Configurator	15
3.2.2	Launching from WAGO-I/O-CHECK	
3.2.3	Launching as Stand-Alone Tool	
272	1 Changing the Language of the User Interface	17
J.Z.J		
4	User Interface	
5.2.5 4 4.1	User Interface	
4 4.1 4.1.1	User Interface	
4.1 4.1.1 4.1.2	User Interface	
 3.2.3 4 4.1 4.1.1 4.1.2 4.1.2 	User Interface	17 18 19 23 24 28
4.1 4.1.1 4.1.2 4.1.2 4.1.2	User Interface	17 18 19 23 24 28 28
4.1 4.1.1 4.1.2 4.1.2 4.1.2 4.1.2 4.1.2	User Interface	17 18
4 4.1 4.1.1 4.1.2 4.1.2 4.1.2 4.1.2 4.1.2 4.1.2	User Interface	
4 4.1 4.1.1 4.1.2 4.1.2 4.1.2 4.1.2 4.1.2 4.1.2 4.1.2	User Interface	17 18 19 23 24 28 28 28 28 29 31
4.1.1 4.1.2 4.1.2 4.1.2 4.1.2 4.1.2 4.1.2 4.1.2 4.1.2 4.1.2 4.1.2	User Interface	17 18 19232428282828293131
4 4.1 4.1.2 4.1.2 4.1.2 4.1.2 4.1.2 4.1.2 4.1.2 4.1.2 4.1.2 4.1.2 4.1.2 4.1.2	User Interface	
4.1.1 4.1.2 4.1.2 4.1.2 4.1.2 4.1.2 4.1.2 4.1.2 4.1.2 4.1.2 4.1.2 4.1.2 4.1.2 4.1.2 4.1.2 4.1.2 4.1.2	User Interface	17 18 19232428282828293131323232
3.2.3 4 4.1 4.1.2	User Interface "START" Tab Communication Settings Addressing .1 Control Gears (ECGs) .1.1 Start Addressing .1.2 Add .1.3 Edit .1.4 Locate .1.5 Using a Barcode Scanner to Sort ECGs .2 Sensors .2.1 Start Addressing .2.2 Add	17 18 19232428282828293131313232323333
3.2.3 4 4.1 4.1.2	User Interface	17 18 192324282828293131323233353537
3.2.3 4 4.1 4.1.2	User Interface "START" Tab Communication Settings Addressing .1 Control Gears (ECGs) .1.1 Start Addressing .1.2 Add .1.3 Edit .1.4 Locate .1.5 Using a Barcode Scanner to Sort ECGs .2 Sensors .2.1 Start Addressing .2.2 Add .2.3 Edit .2.4 Locate .3 Type 1 Sensors	17 18 192324282828282931313132323233353738
3.2.3 4 4.1 4.1.2	User Interface "START" Tab Communication Settings Addressing .1 Control Gears (ECGs) .1.1 Start Addressing .1.2 Add .1.3 Edit .1.4 Locate .1.5 Using a Barcode Scanner to Sort ECGs .2 Sensors .2.1 Start Addressing .2.2 Add .2.3 Edit .2.4 Locate .3 Type 1 Sensors .3.1 Start Addressing	17 19 19
3.2.3 4 4.1 4.1.2	User Interface "START" Tab Communication Settings Addressing .1 Control Gears (ECGs) .1.1 Start Addressing .1.2 Add .1.3 Edit .1.4 Locate .1.5 Using a Barcode Scanner to Sort ECGs .2 Sensors .2.1 Start Addressing .2.2 Add .2.3 Edit .2.4 Locate .3 Type 1 Sensors .3.1 Start Addressing .3.2 Add	
3.2.3 4 4.1 4.1.2 4.1.2 4.1.2 4.1.2 4.1.2 4.1.2 </td <td>User Interface "START" Tab Communication Settings Addressing .1 Control Gears (ECGs) .1.1 Start Addressing .1.2 Add .1.3 Edit .1.4 Locate .1.5 Using a Barcode Scanner to Sort ECGs .2 Sensors .2.1 Start Addressing .2.2 Add .2.3 Edit .2.4 Locate .3 Type 1 Sensors .3.1 Start Addressing .3.2 Add .3.3 Edit</td> <td>17 18 19 23 24 28 28 28 28 28 28 </td>	User Interface "START" Tab Communication Settings Addressing .1 Control Gears (ECGs) .1.1 Start Addressing .1.2 Add .1.3 Edit .1.4 Locate .1.5 Using a Barcode Scanner to Sort ECGs .2 Sensors .2.1 Start Addressing .2.2 Add .2.3 Edit .2.4 Locate .3 Type 1 Sensors .3.1 Start Addressing .3.2 Add .3.3 Edit	17 18 19 23 24 28 28 28 28 28 28
3.2.3 4 4.1 4.1.2 4.1.2 4.1.2 4.1.2 4.1.2 4.1.2 </td <td>User Interface "START" Tab Communication Settings Addressing .1 Control Gears (ECGs) .1.1 Start Addressing .1.2 Add .1.3 Edit .1.4 Locate .1.5 Using a Barcode Scanner to Sort ECGs .2 Sensors .2.1 Start Addressing .2.2 Add .2.3 Edit .2.4 Locate .3 Type 1 Sensors .3.1 Start Addressing .3.2 Add .3.3 Edit .3.4</td> <td></td>	User Interface "START" Tab Communication Settings Addressing .1 Control Gears (ECGs) .1.1 Start Addressing .1.2 Add .1.3 Edit .1.4 Locate .1.5 Using a Barcode Scanner to Sort ECGs .2 Sensors .2.1 Start Addressing .2.2 Add .2.3 Edit .2.4 Locate .3 Type 1 Sensors .3.1 Start Addressing .3.2 Add .3.3 Edit .3.4	
3.2.3 4 4.1 4.1.2 4.1.2 4.1.2 4.1.2 4.1.2 4.1.2 </td <td>User Interface "START" Tab Communication Settings Addressing .1 Control Gears (ECGs) .1.1 Start Addressing .1.2 Add .1.3 Edit .1.4 Locate .1.5 Using a Barcode Scanner to Sort ECGs .2 Sensors .2.1 Start Addressing .2.2 Add .2.3 Edit .2.4 Locate .3.1 Start Addressing .3.1 Start Addressing .3.1 Start Addressing .3.1 Start Addressing .3.2 Add .3.3 Edit .3.4 Locate .3.4 Locate .3.4 Locate .3.4 Locate .3.4 Locate .3.4 Locate</td> <td>17 18 19 23 24 28 28 28 28 28 28 </td>	User Interface "START" Tab Communication Settings Addressing .1 Control Gears (ECGs) .1.1 Start Addressing .1.2 Add .1.3 Edit .1.4 Locate .1.5 Using a Barcode Scanner to Sort ECGs .2 Sensors .2.1 Start Addressing .2.2 Add .2.3 Edit .2.4 Locate .3.1 Start Addressing .3.1 Start Addressing .3.1 Start Addressing .3.1 Start Addressing .3.2 Add .3.3 Edit .3.4 Locate .3.4 Locate .3.4 Locate .3.4 Locate .3.4 Locate .3.4 Locate	17 18 19 23 24 28 28 28 28 28 28



4.1.2.4.2	Add	42
4.1.2.4.3	Edit	42
4.1.2.4.4	Locate	44
4.1.2.5	Topology Tree	44
4.1.2.5.1	Select/Deselect Devices	44
4.1.2.5.2	Change Order	45
4.1.2.5.3	Activating/Deactivating Individual Devices, Groups or Scen	es 45
4.1.2.5.4	Context Menu	46
4.1.2.6	Setting up Building/Room Structure	49
4.1.2.6.1	Assign Devices to Your "Rooms"	50
4.1.2.6.2	Assignment to Groups and Scenes	50
4.1.3	Groups & Scenes	51
4.1.3.1	Assign Groups	51
4.1.3.2	Groups Context Menu	52
4.1.3.3	Assigning Scenes	53
4.1.3.4	"Scene" Context Menu	54
4.1.4	Configuration	56
4.1.4.1	"Control Gear (ECG) (Common)" Tab	57
4.1.4.2	"Fluorescent Light (DT0)" Tab	58
4.1.4.3	"Emergency Lighting (DT1)" Tab	58
4.1.4.4	"Discharge Lamp (DT2)" Tab	60
4.1.4.5	"Low Voltage Halogen Lamp (DT3)" Tab	60
4.1.4.6	"Filament Lamp (DT4)" Tab	61
4.1.4.7	"Converting the Digital Signal into a DC Voltage (DT5)" Tab	61
4.1.4.8	"LED Module (DT6)" Tab	62
4.1.4.9	"Switching Function (DT7)" Tab	63
4.1.4.10	"Color Control (DT8)" Tab	64
4.1.4.11	"Load Referencing (DT15)" Tab	66
4.1.4.12	"Thermal Gear Protection (DT16)" Tab	66
4.1.4.13	"Dimming Curve Selection (DT17)" Tab	66
4.1.4.14	"Centrally Supplied Emergency Operation (DT19)" Tab	67
4.1.4.15	"Load Shedding (DT20)" Tab	68
4.1.4.16	"Thermal Lamp Protection (DT21)" Tab	68
4.1.4.17	"Non-Replaceable Light Source (DT23)" Tab	69
4.1.4.18	"Integrated Bus Power Supply (DT49)" Tab	69
4.1.4.19	"Memory Bank 1 Extension (DT50)" Tab	69
4.1.4.20	"Energy Reporting (DT51)" Tab	71
4.1.4.21	"Diagnostics and Maintenance (DT52)" Tab	73
4.1.4.22	"Memory Banks" Tabs	79
4.1.4.22.1	Multiple Devices	79
4.1.4.22.2	Single Device	80
4.1.4.23	"Sensor (Common)" Tab	81
4.1.4.24	"Universal Input (IT0)" Tab	83
4.1.4.25	"Button (IT1)" Tab	84
4.1.4.26	"Absolute Input (IT2)" Tab	87
4.1.4.27	"Presence Detector (IT3)" Tab	89
4.1.4.28	"Light Sensor (IT4)" Tab	91
4.1.4.29	"Button (DT1)" Tab	93
4.1.4.30	"Presence Detector (DT2)" Tab	93
4.1.4.31	"Light Sensor (DT3)" Tabs	94



	"MSensor (Common)" Tab	
4.1.4.33	"Presence Detector (DT4)" Tab	
4.1.4.34	"Button (Common)" Tab.	95
4.1.4.35	6 "Button (FT50)" Tab	95
4.2	"MODULE SETTINGS" Tab	96
4.2.1	Configuration Settings Overview	98
4.2.1.1	"Easy Mode"	98
4.2.1.2	"Full Mode"	99
4.2.1.3	General Settings	100
4.2.2	Use "Construction Site Function"	102
4.3	"DIAGNOSTICS" Tab	103
4.3.1	Update Diagnostic Information	106
4.3.2	Generate Status Report	106
4.3.3	Light Operating Hours	107
4.3.3.1	Reset Operating Hours	107
4.3.3.2	Set Operating Hours	107
4.4	Status Bar	108
4.5	"FILE" Tab	109
4.5.1	Generate Project Documentation: "WAGO DALI Configurator	
	Report"	112
5 St	Report" artup – Example Configuration	112 113
5 St 5.1	Report" artup – Example Configuration Establish Connection	112 113 113
5 St 5.1 5.2	Report" artup – Example Configuration Establish Connection Address Control Gears (ECG)	112 113 113 113
5 St 5.1 5.2 5.3	Report" cartup – Example Configuration Establish Connection Address Control Gears (ECG) Create Room Structure	112 113 113 113 114
5 St 5.1 5.2 5.3 5.4	Report" cartup – Example Configuration Establish Connection Address Control Gears (ECG) Create Room Structure Assigning Lighting Groups	112 113 113 113 114 114
5 St 5.1 5.2 5.3 5.4 5.5	Report" artup – Example Configuration Establish Connection Address Control Gears (ECG) Create Room Structure Assigning Lighting Groups Assigning a Light Scene	112 113 113 113 114 114 114
5 St 5.1 5.2 5.3 5.4 5.5 5.6	Report" cartup – Example Configuration Establish Connection Address Control Gears (ECG) Create Room Structure Assigning Lighting Groups Assigning a Light Scene Configuring Control Gears (ECG)	112 113 113 113 114 114 114 115
5 St 5.1 5.2 5.3 5.4 5.5 5.6 5.7	Report" cartup – Example Configuration Establish Connection Address Control Gears (ECG) Create Room Structure Assigning Lighting Groups Assigning a Light Scene Configuring Control Gears (ECG) Addressing and Assigning Sensors	112 113 113 113 114 114 114 115 115
5 St 5.1 5.2 5.3 5.4 5.5 5.6 5.7 5.8	Report" Example Configuration Establish Connection Address Control Gears (ECG) Create Room Structure Assigning Lighting Groups Assigning a Light Scene Configuring Control Gears (ECG) Addressing and Assigning Sensors Configuring Sensors	112 113 113 113 114 114 114 115 115 116
5 St 5.1 5.2 5.3 5.4 5.5 5.6 5.7 5.8 5.9	Report" cartup – Example Configuration Establish Connection Address Control Gears (ECG) Create Room Structure Assigning Lighting Groups Assigning a Light Scene Configuring Control Gears (ECG) Addressing and Assigning Sensors Configuring Sensors Querying the Control Gear Status	112 113 113 113 114 114 114 115 115 116 116
5 St 5.1 5.2 5.3 5.4 5.5 5.6 5.7 5.8 5.9 5.10	Report" Example Configuration Establish Connection Address Control Gears (ECG) Create Room Structure Assigning Lighting Groups Assigning a Light Scene Configuring Control Gears (ECG) Addressing and Assigning Sensors Configuring Sensors Querying the Control Gear Status Generating Project Documentation	112 113 113 113 114 114 114 115 115 116 116 116
5 St 5.1 5.2 5.3 5.4 5.5 5.6 5.7 5.8 5.9 5.10 5.11	Report" cartup – Example Configuration Establish Connection Address Control Gears (ECG) Create Room Structure Assigning Lighting Groups Assigning a Light Scene Configuring Control Gears (ECG) Addressing and Assigning Sensors Configuring Sensors Querying the Control Gear Status Generating Project Documentation Setting Cyclic Control Gear Query and Saving the Project	112 113 113 113 114 114 114 115 115 116 116 117
 5.1 5.2 5.3 5.4 5.5 5.6 5.7 5.8 5.9 5.10 5.11 6 Gi 	Report" Eartup – Example Configuration Establish Connection Address Control Gears (ECG) Create Room Structure Assigning Lighting Groups Assigning a Light Scene Configuring Control Gears (ECG) Addressing and Assigning Sensors Configuring Sensors Querying the Control Gear Status Generating Project Documentation Setting Cyclic Control Gear Query and Saving the Project	112 113 113 113 114 114 114 115 115 116 116 116 117 118
5 St 5.1 5.2 5.3 5.4 5.5 5.6 5.7 5.8 5.9 5.10 5.11 6 Gi List of I 5.5	Report" Example Configuration Establish Connection Address Control Gears (ECG) Create Room Structure Assigning Lighting Groups Assigning a Light Scene Configuring Control Gears (ECG) Addressing and Assigning Sensors Configuring Sensors Querying the Control Gear Status Generating Project Documentation Setting Cyclic Control Gear Query and Saving the Project Iossary Figures	112 113 113 113 114 114 114 115 115 116 116 116 117 118 122



1

Notes about this Documentation

Note

\rightarrow

Always retain this documentation!

This documentation is part of the product. Therefore, retain the documentation during the entire service life of the product. Pass on the documentation to any subsequent user. In addition, ensure that any supplement to this documentation is included, if necessary.

1.1 Scope

This documentation applies for the WAGO DALI Configurator in conjunction with the DALI Multi Master Module 753-647.

1.2 Copyright

This Manual, including all figures and illustrations, is copyright-protected. Any further use of this Manual by third parties that violate pertinent copyright provisions is prohibited. Reproduction, translation, electronic and phototechnical filing/archiving (e.g., photocopying) as well as any amendments require the written consent of WAGO Kontakttechnik GmbH & Co. KG, Minden, Germany. Non-observance will involve the right to assert damage claims.



1.3 Symbols

▲ DANGER

Personal Injury!

Indicates a high-risk, imminently hazardous situation which, if not avoided, will result in death or serious injury.

▲ DANGER

Personal Injury Caused by Electric Current!

Indicates a high-risk, imminently hazardous situation which, if not avoided, will result in death or serious injury.

▲ WARNING

Personal Injury!

Indicates a moderate-risk, potentially hazardous situation which, if not avoided, could result in death or serious injury.

Personal Injury!

Indicates a low-risk, potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

NOTICE

Damage to Property!

Indicates a potentially hazardous situation which, if not avoided, may result in damage to property.



NOTICE

Damage to Property Caused by Electrostatic Discharge (ESD)! Indicates a potentially hazardous situation which, if not avoided, may result in damage to property.



Note Important Note!

Indicates a potential malfunction which, if not avoided, however, will not result in damage to property.





Information

Additional Information:

Refers to additional information which is not an integral part of this documentation (e.g., the Internet).



1.4 Number Notation

Table	1:	Number	Notation
	•••		

Number Code	Example	Note	
Decimal	100	Normal notation	
Hexadecimal	0x64	C notation	
Binary	'100' '0110.0100'	In quotation marks, nibble separated with dots (.)	

1.5 Font Conventions

Table 2: Font Conventions

Font Type	Indicates
italic	Names of paths and data files are marked in italic-type. e.g.: C:\Program Files\WAGO Software
Menu	Menu items are marked in bold letters. e.g.: Save
>	A greater-than sign between two names means the selection of a menu item from a menu. e.g.: File > New
Input	Designation of input or optional fields are marked in bold letters, e.g.: Start of measurement range
"Value"	Input or selective values are marked in inverted commas. e.g.: Enter the value "4 mA" under Start of measurement range .
[Button]	Pushbuttons in dialog boxes are marked with bold letters in square brackets. e.g.: [Input]
[Key]	Keys are marked with bold letters in square brackets. e.g.: [F5]



2 Important Notes

This section describes the legal principles and system requirements for using the software in compliance with intended purpose, underlying provisions and stated specifications.

2.1 Legal Bases

2.1.1 Subject to Changes

WAGO Kontakttechnik GmbH & Co. KG reserves the right to provide for any alterations or modifications. WAGO Kontakttechnik GmbH & Co. KG owns all rights arising from the granting of patents or from the legal protection of utility patents. Third-party products are always mentioned without any reference to patent rights. Thus, the existence of such rights cannot be excluded.

2.1.2 Personnel Qualification

Any steps related to the use of WAGO software may only be performed by qualified employees with sufficient knowledge of handling the respective PC system used.

Steps in which files are created or changed on the PC system may only be performed by qualified employees with sufficient knowledge in the administration of the PC system used in addition to the aforementioned.

Steps in which the behavior of the PC system in a network is changed may only be performed by qualified employees with sufficient knowledge in the administration of the network used in addition to the aforementioned.

2.2 Safety Advice (Precautions)



Note

Use up-to-date security software!

Secure operation of the PC system can be at risk as a result of malware such a viruses and Trojans, as well as related threats such as denial-of-service attacks. Therefore, make sure that the latest security software and definitions are always installed on the PC system.



Information

Disable or uninstall software that is no longer required!

The vulnerability of a PC system against malware and related threats increases with the number of installed or active software components (applications and services). Therefore, uninstall or disable software components that are not needed for the purpose at hand.



2.3 Requirements

2.3.1 PC Hardware

Table 3: Requirements PC Hardware

Component	Requirements
Operating system	Windows 7 / Windows 8 / Windows 10
Random access memory (RAM)	Min. 512 MB
Free hard disk storage unit	Min. 20 MB for the WAGO DALI Configurator and 610 MB for the .NET 4.0 Framework
Processor	Min. 1 GHz
Other	Installed network card, .NET 4.0 Framework (Redistributables are provided), standard web browser with Java support

2.3.2 PC Software

Table 4: Required PC Software

Component	Reference source (order number)
WAGO-I/O- <i>PRO</i>	WAGO (759-333)
.NET Framework 4.0	Microsoft
	(free download under: www.microsoft.com)
WAGO DALI Configurator	WAGO
from Version 3.0	Stand Alone Tool, download under:
	www.wago.com

Table 5: Optional PC Software

Component	Reference source (order number)	
WAGO-I/O-CHECK	WAGO (759-302)	
WAGO Ethernet Settings	WAGO (free download at: www.wago.com)	



2.3.3 WAGO I/O SYSTEM

Table 6: Required Hardware of the WAGO I/O SYSTEM

Component	Reference source (order number)
Fieldbus controller/PLC	
WAGO I/O SYSTEM 750, e.g.	
ETHERNET PLC (750-881) or	WAGO (750-881)
PFC200 Controller	WAGO (750-8212)
DALI Multi-Master Module	WAGO (753-647)
End Module	WAGO (750-600)
Current supply for the indirect supply of	
the DALI Bus participants via the DALI	
Multi-Master Module (753-647), e. g.:	
DALI Multi-Master DC/DC Converter or	WAGO (753-620)
Current supply	WAGO (787-1007)

NOTICE

Destruction of DALI subscribers due to misuse of the WAGO power supply 787-1007!

Please note that the power supply by WAGO (Item No.: 787-1007) may <u>only</u> be connected to the DALI Multi-Master Module 753-647. The power supply for the DALI bus is provided indirectly via the DALI Multi-Master Module. A direction connect to the DALI bus can result in the destruction of the attached DALI slaves. Therefore, <u>never</u> connect the WAGO Power Supply 787-1007 to a DALI network directly without a DALI Multi-Master Module 753-647 connected between the power supply and the network.



Note

Do not connect another power supply to the DALI bus when powering the DALI network subscribers via the integrated DALI Multi-Master's power supply unit

No other power supply must be active on the DALI bus when indirectly powering the DALI network subscribers via the 753-647 DALI Multi-Master (e.g., when using a 753-620 DALI Multi-Master DC/DC Converter or a 787-1007 Power Supply).

Otherwise, it is not possible to address the DALI network subscribers.



2.3.4 Fieldbus Coupler/Controller Compatibility List

Fieldbus	Lowest Firmware	Note
Coupler/Controller	Version ¹⁾	
750-333	17	
750-343	Not supported	
750-370	06	
750-375	All	
750-377	All	
750-829	05	
750-830	04	
750-831	03	
750-833	16	
750-849	05	Allow control mode over
		Ethernet box must be
		checked! ²⁾
750-88x	05	
750-810x	08	
750-820x	08	
750-821x	11	

Table 7: Compatibility List, Version of November 2016

¹⁾ In general, it is advisable to use the most recent available firmware version.

²⁾ WBM page "Features" > "Wago Communication over Ethernet"



Note

Limit the PLC cycle time to maximum 60 ms

The DALI function blocks in the PLC program must be run at least every 60 ms for communication with the DALI Configurator.



3 WAGO DALI Configurator

Information

Download the WAGO DALI Configurator

You can download the WAGO DALI Configurator as a stand-alone tool from the WAGO website at:

http://www.wago.com.

The WAGO DALI Configurator allows easy commissioning of a DALI network via the DALI Multi-Master Module (753-647).

The WAGO DALI Configurator provides functions not only for easy startup and configuration, but also for the service, care and maintenance of a DALI network. That includes configuring the entire DALI network offline, including the electronic control gears (ECGs) and control devices (sensors), as well as saving and restoring device configurations, so that a replaced device can be reconstructed with database values. You can copy the device settings to another device or to multiple duplicates. If you are replacing an ECG, but keeping the lighting, you can write the hours of operation of the lighting to the DALI Multi-Master Module. The network overview appears in a tree structure. All online DALI Multi-Master Modules are displayed in the module navigation. The tree structure shows the DALI network of the DALI Multi-Master Module currently selected. Multiple selection of devices allows efficient configuration.

Information

Logging operating hours with firmware version 04 or later

The "Logging of operating hours" function is integrated into firmware versions 04 and later.

This function is disabled for DALI Multi-Master Modules with firmware < 04.

3.1 **Overview of the Essential Functions**

- Addressing of the DALI bus subscribers
- Scene and group formation
- Configuration of the control gears (ECGs)
- Configuration of the control devices (sensors)
- Specific settings for the I/O module
- Diagnostic function
- Import and export function
- ECGs/lamps defect messages
- Manual connection/disconnection
- Signaling a communication interruption
- Displaying, resetting and logging^{*}) operating hours
 ^{*}) For DALI Multi-Master Modules with firmware version 04 or higher



3.2 Installation

The WAGO DALI Configurator is installed as a stand-alone tool from a "Setup.exe" file with user-guided wizards.

3.2.1 Launching the WAGO DALI Configurator



Note

If available, you can launch the WAGO DALI Configurator from the WAGO-I/O-*CHECK* startup tool (version 3.5.1.1 or higher). The WAGO-I/O-CHECK startup software is available under Item No 759-302 on a CD-ROM.

The requirements for online configuration described in the following section include:

- The hardware configuration of your fieldbus node is correct.
- The DALI network is installed without errors and is wired.
- The WAGO DALI Configurator software is available on your PC (as a stand-alone tool or as part of the WAGO-I/O-CHECK software).

3.2.2 Launching from WAGO-I/O-CHECK

To launch the software from WAGO-I/O-*CHECK* directly, the program must also be available on the PC.

- 1. Read the hardware configuration of your fieldbus node from the WAGO-I/O-*CHECK* startup tool.
- 2. Right-click the icon for the DALI Multi-Master Module.
- 3. In the context menu, select the **Settings** menu item (see the figure below). The WAGO DALI Configurator opens.





Figure 1: Launching the WAGO DALI Configurator from WAGO-I/O-CHECK

3.2.3 Launching as Stand-Alone Tool

Launch the WAGO DALI Configurator by double-clicking the .exe file. The WAGO DALI Configurator opens.

The "START" tab opens first.

🗶 🗅 📂 日	2		New Project - WAG	D DALI C	onfigurator				
FILE STAR	T MODULE SETTINGS	DIAGNOSTICS							0
Connect Settings	Addressing	Configuration	Cocate Start	Act	Random Addressing	Only Only Rese Iden Addressing	r Unaddressed I et Values tify	Devices	
- New Lin	e	Control G	ears Sensors	🔀 Senso	r Type 1 🛛 🐼 Sensor	Type 2			
		Name		Path		Address	Туре	Serial Number	
D4	Ll Multi-Master 1								
Ready									0.0.0.0

Figure 2: Launching the WAGO DALI Configurator by Clicking the .exe File

The user interface, its functions and its views are described in the next section.



3.2.3.1 Changing the Language of the User Interface

The WAGO DALI Configurator supports the following languages: German, English and French.

By default, the WAGO DALI Configurator starts in the language of the operating system or, if this is not supported, in English.

You can change the language of the user interface by starting the WAGO DALI Configurator with the following command line argument in the Windows command prompt:

- For German: <Installation path>\"WAGO.DaliConfigurator.exe" /Language:de
- For English: <Installation path>\"WAGO.DaliConfigurator.exe" /Language:en
- For French: <Installation path>\"WAGO.DaliConfigurator.exe" /Language:fr



4 User Interface

The user interface is divided into seven areas:

	Te t.wd	c2s - WAGO DALI Configurator			
Addressing Connection Connection	Central On Central Off Central Off DA	Locate Start Read All Compare Write All Write All Write All Locate Stop Write All Li Network Actions	Rand ym Addressing	Onl Res Ider Addressing	y Unaddressed Devices et Values ntify
Inie	Control Gears Senso	rs 🔀 Sensor Type 1 🔀 Sensor Type 2			
A Low Erdgeschoss	Name	Path	Address	Туре	Serial Number
Notausgang Erdgeschoss (Adr –	💽 EVG 1	Neue Linie\Erdgeschoss\Raur	n 1 EO\ 0	0	
light Sensor (Adr: -)	😣 Notausgang Erdgeso	hoss Neue Linie\Erdgeschoss\	1	1	
Presence Detector (Adr: -)	👯 EVG 3	Neue Linie\Erdgeschoss\Raur	n 2 EO\ 2	🔁 2	
Remote Control (Adr: -)	💽 EVG 4	Neue Linie\Erdgeschoss\Raun	n 3 EO\ 3	(] 4	
Sensortyp 2 (3)	💽 EVG 5	Neue Linie\1. Etage\Raum 2 E	1\ 4	 6	
Light Sensor (Adr: -)	💽 EVG 6	Neue Linie\2. Etage\Raum 1 E	2\ 5	😌 3	
Presence Detector (Adr: -)	💽 EVG 7	Neue Linie\2. Etage\Raum 2 E	2\ 6	<u>≌</u> 5	
🐻 Remote Control (Adr: -)	💽 EVG 8	Neue Linie\2. Etage\Raum 3 E	2\ 7	■ -\ 7	
⊿ 🐼 Raum 1 E0	💽 EVG 9	Neue Linie\Dachgeschoss\	8	sa 9	
EVG 1 (Adi 0)	💀 Notausgang 1.0G	Neue Linie\1. Etage\	9	1	
A Raum 2 EO	💀 Notausgang 2.0G	Neue Linie\2. Etage\	10	I 1	
	💀 Neues Betriebsgerät	(EVG) Neue Linie\		😵 8	
DALI Modu DALI Modu le 2					⊴ D≥ 192,168

Figure 3: User Interface

No.	Explanation
1	Toolbar for quick access
2	Tabs
3	Ribbon with context-dependent buttons, selection boxes and checkboxes
4	Context-dependent configuration area
5	Status Bar
6	Module navigation: selection of the current DALI Multi-Master Module
7	Tree structure

There are four tabs. Each of the tabs contains its own user interface views.

- FILE
- START
- MODULE SETTINGS
- DIAGNOSTICS

Each of these tabs has its own ribbon with buttons, selection boxes and/or checkboxes, which are described in more detail in the following sections.



4.1 "START" Tab

🔣 🗅 📂 日	2		New Project - WAG	O DALI C	onfigurator			
FILE STAR	MODULE SETTINGS	DIAGNOSTIC	IS					9
Connect Settings	Addressing Croups & Scenes View	Configuration	Switch On DALI Network	Act	Random Addressing	Only Rese Ider Addressing	y Unaddressed et Values ntify	Devices
- New Lin	e	Cont	trol Gears Sensors	🔀 Senso	r Type 1 🔀 Sensor	Type 2		
		Na	ime	Path		Address	Туре	Serial Number
	ALI Multi-Master 1							
Ready								0.0.0.0

Figure 4: View of the "START" Tab

On the "**START**" tab, the ribbon runs horizontally below the tabs. The buttons, selection boxes and checkboxes on the ribbon depend in part on context.

Table 9: Buttons of the "START" Tab – Connection

Button	Label	Description						
	Connection							
₽₽	[Connect]	(Only visible if not connected) Establishes the connection to the DALI Multi- Master Module.						
	[Disconnect]	(Only visible if connected) Disables the connection to the DALI Multi- Master Module.						
**	[Settings]	Click this button to open the "Communication Settings" dialog; see section "Communication Settings."						

You can work with three main views:

- Addressing
- Groups & Scenes
- Configuration

Click the corresponding buttons on the ribbon to switch between these views.



Table 10: Buttons of the "START" Tab – View

Button	Label	Description						
	View							
_@	[Addressing]	Click this button to switch to the view for addressing; see section "Addressing."						
}	[Groups & Scenes]	Click this button to switch to the view for assigning the devices in groups and scenes; see section "Groups & Scenes."						
¢	[Configuration]	Click this button to switch to the view for configuring the devices; see section "Configuration."						

Table 11: Buttons of the "START" Tab - DALI Network

Button	Label	Description							
	DALI Network								
	[Central On]	Click this button to switch on all lights connected to the DALI line.							
\square	[Central Off]	Click this button to switch off all lights connected to the DALI line.							
Ç. €	[Locate Start]	Click this button to start the localization function for one or more selected DALI control gears for identifying and, if necessary, checking the physical installation location.							
Ç.	[Locate Stop]	Click this button to stop the localization function.							
☑ / □*)	Switch ON	A steady light is used for the localization function of ECGs.							
		 A flashing light is used for the localization function of ECGs. 							
	[Read all]	Click this button to read addresses, group and scene information and configuration parameters of all connected DALI network devices.							
	[Compare all]	Click this button to compare a configuration (offline) with another configuration available in the DALI network (online).							
	[Write all]	Click this button to write all data to the DALI network devices available online.							

*) Default



Button		Description
Batton		Actions
	[Actions
	[Read]	Contextual:
		 In the Addressing view:
		Addressed devices are searched
		(depending on the selected tab)
		• In the Groups & Scenes view:
		Group and scene settings are read.
		• In the Configuration view:
		The device parameters selected in the
		topology tree are read
		(depending on the selected tab)
	[Write]	Contextual:
		 In the Addressing view:
		Disabled
		 In the Groups & Scenes view:
		Group and scene settings are
		written
		 In the Configuration view:
		The device parameters of the selected
		device(s) are written
	[Save Persistent	The persistent variables of the selected
	Variables]	control gears (ECGs) and control devices
		(sensors) are written (DALI command: "Save
		Persistent Variables").
		Since the service life of the flash memory in
		the devices decreases with the number of
		write cycles, this function should be used in
		moderation.



Table 1	3. Buttons	of the	"START"	Tah _	Addressing	
	5. Dullons		STANT	1 au - 1	Audressing	

Button	Label	Description						
	Addressing							
Random Addressing Random Addressing Physical Selection		 Here you can select between: "Random Addressing" (the DALI network device should be assigned a random address) and "Physical Addressing" (only for sensor type 1 and sensor type 2; the DALI network device should be identified and subsequently addressed e.g., by pushing a button or by unscrewing a lamp and screwing it back in) 						
@ `	[Start]	Click this button to launch the addressing operation for the tab currently selected (Control Gears, Sensors, Sensor Type 1 or Sensor Type 2)						
☑*) / □	Only unaddressed devices	 ☑ Only devices without short addresses are assigned new addresses. 						
	- ++\		All devices are assigned new addresses.					
⊻'/□	Reset values"	 The devices are reset to their reset values. The devices are not reset to their reset values. 						
☑ / □*)	Identify	Image: Values. Image:						
			No identification occurs during addressing.					

*) Default

 $^{^{\star\star)}}$ Not for sensor type 2



4.1.1 Communication Settings

**

To set the communication parameters for the link between the DALI Configurator and WAGO fieldbus controller, click the **[Settings]** button on the ribbon. The **"Communication Settings**" dialog appears:

Communication Settings								
- Connection								
Ethernet (TCP/IP)	•							
Settings								
IP-Address								
0.0.0.0								
DALI Module position	1 🛟							
ОК	Cancel							

Figure 5: "Communication Settings" Dialog

In this dialog, you can choose the connection type in the **Connection** selection box:

- ETHERNET or
- Serial connection

In the **Settings** area, you can do the following based on the selection made:

- Enter an IP address in the "IP Address" input field, or
- Select the associated COM port in the **Port** selection box.

Select or enter the required numbers for the I/O module in question in the "DALI Module Position" selection box. Click the **[OK]** button to confirm your entries.



4.1.2 Addressing



To set the tree structure for the network topology, to add DALI network devices, to assign device labels and to address all DALI network devices, click the **[Addressing]** button.

🛒 l 🗅 📂 🗔 😡	Test.wdc2s - WAGO DALI Configurator						
FILE START MODULE SETTINGS DIAGNOSTI	S		0				
Disconnect Settings	• Central On	ising V O	nly Unaddressed Devices eset Values sentify				
Connection View	DALI Network Act	Addressing					
A : Neue Linie	🔺 📇 Neue Linie 🔄 🐼 Control Gears 🐼 Sensors 🐼 Sensor Type 1 🐼 Sensor Type 2						
Frdgeschoss	Name Path	Address	Type Serial Nun				
Notausgang Erdgeschoss (Adr: 1)	EVG 1 Neue Linie\Erdgeschoss\Raum 1 E0\	0 🗩	0				
Sensortyp 2 (2)	Notausgang Erdgeschoss Neue Linie\Erdgeschoss\	1 📑	1				
Light Sensor (Adr)	EVG 3 Neue Linie\Erdgeschoss\Raum 2 E0\ .	2 🏴	2				
Remote Control (Adr)	EVG 4 Neue Linie\Erdgeschoss\Raum 3 E0\	з 🖓	4				
✓ Sensortyp 2 (3)	EVG 5 Neue Linie\1. Etage\Raum 2 E1\	4 🐥	6				
Light Sensor (Adr: -)	EVG 6 Neue Linie\2. Etage\Raum 1 E2\	5 🔗	3				
Presence Detector (Adr: -)	EVG 7 Neue Linie\2. Etage\Raum 2 E2\	6 🚮	5				
Remote Control (Adr: -)	EVG 8 Neue Linie\2. Etage\Raum 3 E2\	7 •	7				
4 🐼 Raum 1 E0	EVG 9 Neue Linie\Dachgeschoss\	8 😪	9				
💽 EVG 1 (Adr: 0)	Notausgang 1.0G Neue Linie\1. Etage\	9 🛤	1				
▲ 🐼 Raum 2 E0	Notausgang 2.0G Neue Linie\2. Etage\	10	1				
-Δ-I EVG 3 (Δdr: 2)	Neues Betriebsgerät (EVG) Neue Linie	😪	8				
DALI Multi-Master 1							
DALI Multi-Master 2							
Ready			192.168.1.73				

Figure 6: "Addressing" View, "Control Gears" Tab (Example)

Four other tabs are available in the configuration area that can be used to add DALI network devices to your network:



Figure 7: Tabs in the "Addressing" View

- Control Gears (ECGs)
- Sensors
- Sensor Type 1 (pushbutton couplers and multi-sensors)
- Sensor Type 2 (pushbutton couplers and multi-sensors)

Sensors

contain DALI sensors that correspond to the DALI 2 Standard



2851-8201

2851-8202

Sensor Type 1 includes:

- WAGO DALI Multi-Sensor Kit
- WAGO DALI Sensor Coupler
- Sensor Adapter OSRAM DALI PROFESSIONAL, combinable with:
 - Sensor OSRAM DALI HIGHBAY
 - Sensor OSRAM DALI VISION
- Pushbutton coupler OSRAM DALI PRO PB Coupler
- Light installation sensor OSRAM DALI LS/PD LI
- Radar sensor OSRAM DALI Professional Sensor Coupler HF LS LI

Sensor Type 2 includes:

- WAGO DALI MSensor-02 5DPI 41rc (ceiling installation) 2851-8301
- WAGO DALI MSensor-02 5DPI 41w (socket installation) 2851-8302
- WAGO DALI MSensor-02 5DPI 41rs (surface-mount) 2851-8303
- Pushbutton coupler TRIDONIC DALI XC
- Tridonic MSensor 5DPI 14xx (MSensor Mini)



The following table provides an overview of the network devices that can be added:

Table 14: List of Available DALI Network Devices

lcon	Function	Icon/Type		Label
:	Control gear (ECG)		0	Fluorescent light (standard ECG)
		5	1	Separate emergency lighting
			2	Discharge lamp
		Ø	3	Low voltage halogen lamp
		Ç	4	Filament lamp
		V V	5	Converting the digital signal into a DC voltage
		P	6	LED lamp
		■ -\	7	Switching function
			8	Color control device
		Seq	9	Sequencer
			15	Load referencing
		b	16	Thermal gear protection
		>	17	Dimming curve selection
		s, S	19	Centrally supplied emergency operation
		Ó	20	Load shedding
			21	Thermal lamp protection
		P 23	23	Non-replaceable light source
		~-	49	Integrated Bus Power Supply
		OEM	50	Memory Bank 1 Extension
			51	Energy Reporting
		łĭ	52	Diagnostics and Maintenance



Table 14:	List of Available DAI	LI Network Devic	ces			
lcon	Function	Icon/Type		Label		
; .	Control gear (ECG)	•	250	Error message: duplicate address or undefined response. *)		
		[List of all recognized device types]	255	Multiple device types are supported.		
7	Sensors		0	Universal input		
		⊢\	1	Button		
		<u></u>	2	Absolute input		
			3	Presence detector		
		İx	4	Light sensor		
	l+ device		/pe]	Error message: duplicate address or undefined response. *)		
	Sensor type 1: Light sensor	ix +		MSensor – Brightness sensor function		
	Sensor type 1: Presence detector	2		MSensor – Presence detection function		
	Sensor type 1: Button	ار-⊦		Button		
	Sensor type 1: Error message	! [+ device type]		<i>Error message: duplicate address or undefined response.</i> *)		
7	Sensor type 2: Light sensor	lx +		MSensor – Brightness sensor function		
	Sensor type 2: Presence detector	.		2		MSensor – Presence detection function
	Sensor type 2: Remote control			MSensor – Remote control		
	Sensor type 2: Button	ار -⊦		Button		
	Sensor type 2: Error message		/pe]	<i>Error message: duplicate address or undefined response.</i> *)		

*) Procedure for resolving duplicate addresses: See section "DIAGNOSTICS Tab."



4.1.2.1 Control Gears (ECGs)

4.1.2.1.1 Start Addressing



Note

Addressing applies to currently selected tab

Addressing is always only carried out for the devices of the tab currently selected (Control Gears, Sensors, Sensor Type 1, Sensor Type 2), not for all device types at the same time.

- 1. To start addressing, first establish the connection to the DALI Multi-Master Module by clicking the **[Connect]** button.
- 2. Click the **[Start]** button.
- 3. Click **[Yes]** to confirm the dialog.

The detected ECGs are listed on the "**Control Gears**" tab. The **tree structure** can be expanded on the left side of the configuration area. It also contains a list of detected ECGs.

4.1.2.1.2 Add

In the case of offline configuration, the required ECGs can also be created manually from the context menu:

- 1. To assign an ECG to a DALI Multi-Master Module, first select the "**Control Gears**" tab.
- 2. Right-click in the configuration area on the "**Control Gears**" tab to display the context menu. A context menu appears.
- 3. In the context menu, select "Add ECG." A dialog appears:

Add Devices	×
Add Control Gears	
Amount	5 \$
Add	Cancel

Figure 8: "Add Devices" Dialog

4. Enter the required number of ECGs in the selection box and click the **[Add]** button to confirm your entry.

The ECGs created are now listed in the table on the "Control Gears" tab.



The table contains the following information:

- Name
- Path
- Address
- (Type symbol)
- Type
- Serial number
- 5. Double-click in the respective table cell to edit the "Name," "Address" and "Serial Number" entries.

:•:	Control Gears Sensors Sensor Type 1 Sensor Type 2						
	Name	Path	Address		Туре	Serial Nun	
	EVG 1	Neue Linie\Erdgeschoss\Raum 1 E0\	0		0		
	Notausgang Erdgeschoss	Neue Linie\Erdgeschoss\	1	+ ₹.	1		
*	EVG 3	Neue Linie\Erdgeschoss\Raum 2 E0\	2	₽	2		
•••	FVG 4	Neue Linie\Frdgeschoss\Raum 3 F0\	3	0	4		

Figure 9: Edit Table Cells

The **tree structure** can be expanded in the topology tree on the left side of the configuration area. It now contains the added ECGs.

4.1.2.1.3 Edit

Context menu

To edit the entries of the individual ECGs, right-click the desired row. A context menu appears.



Note

Multiple selection is possible!

To edit several ECGs at the same time, click the desired entries while holding down the **[Shift]** key. Click and hold down the **[Ctrl]** button to select and deselect specific entries.



able 15: Context Menu of the "Control Gears" List				
Menu Item	Description			
Delete Device(s)	Use this menu item to delete the selected ECG(s) from the list.			
Delete Device(s) and Clear Short Address	Use this menu item to delete the selected ECG(s) from the list. In addition, the short address is also deleted from the respective ECG.			
Show Device in Tree Structure	Use this menu item to highlight the selected device in the tree structure.			
Reset Device(s) to Default Values	Use this menu item to reset the device parameters to the default values. Groups and scenes are also reset.			
Add ECG	Use this menu item to open the dialog for adding ECGs. Use the spinner to select the desired number and click [Add] to confirm the selection.			
Swap Name	Use this menu item to open another submenu in which the available ECGs are listed. Click the desired ECG in the list to swap the name of the selected ECG with the name of the ECG you clicked on.			

Name

To change the name of an ECG, double-click in the corresponding table cell. The area changes into an input field in which you can enter the desired name. Press the **[Return]** button on your keyboard. The following table entry is selected, and you can edit the entry.

Address

To enter an address for an ECG, double-click in the corresponding table cell. The area changes into an input field in which you can enter the required address. Press the **[Return]** button on your keyboard. The following table entry is selected, and you can edit the entry.

Serial number

To enter or change the serial number of an ECG, double-click in the corresponding cell. The area changes into an input field in which you can enter the serial number.





Information

Table sorting

Click in the individual columns of the header to sort the table rows in ascending or descending order. A small black arrow marks the column by which the rows are currently sorted.

4.1.2.1.4 Locate

To assign an appropriate name to an existing ECG, you have to identify its installation location.

- 1. First, make sure that all ECGs are switched off by clicking the **[Central Off]** button on the ribbon.
- 2. Click the **[Locate Start]** button on the ribbon.
- 3. Click an ECG in the list to highlight it. The ECG flashes so that you can identify it and assign it an appropriate name.



Note

Select the type of signaling

To use a steady light for signaling instead of a flashing light of the ECG, check the **Switch ON** checkbox on the ribbon.

- 4. Rename the ECG. Press the **[Return]** button on your keyboard to select and rename the following list entry.
- 5. Go through and name the ECGs individually.
- 6. When done, click the **[Locate Stop]** button on the ribbon.

4.1.2.1.5 Using a Barcode Scanner to Sort ECGs

If the serial number of the ECG is available as a barcode (e.g., part of a building plan), you can use a barcode scanner to record the individual ECGs and to assign them to the desired table row:

- 1. Start the random addressing.
- 2. If the serial number (8-byte length) of the ECG is available, click in the **Serial Number** column to select the table cell for editing.
- 3. Scan the serial number of the ECG to which you want to assign the first address. The address is replaced on the bus (and in the table cell), and the table cell below that is highlighted for editing.
- 4. Scan the desired barcodes one after the other. The addresses are now sorted based on the scan order.



4.1.2.2 Sensors

4.1.2.2.1 Start Addressing



Note

No mixed operation of DALI-2 sensors and sensor type 1 sensors Operating DALI-2 sensors and sensor type 1 sensors together can have unwanted consequences.

Therefore, mixed operation of these sensors is prohibited.



Note

Addressing applies to current tab

Addressing is always only carried out for the devices of the tab currently selected (Control Gears, Sensors, Sensor Type 1, Sensor Type 2), not for all device types at the same time.

- 1. To start addressing, first establish the connection to the DALI Multi-Master Module by clicking the **[Connect]** button.
- 2. Click the **[Start]** button.
- 3. Click **[Yes]** to confirm the dialog.

The detected devices are listed in a table on the "**Sensors**" tab. With firmware versions 20 and above, the DALI Multi-Master Module (753-647) is always detected as a sensor.

Name	Path	Address	Serial Number	
DALI multi master	New Line\	0	FFFFFFFFFFFFF	
ti master	New Line\	0	FFFFFFFFFFFFF	

Figure 10: DALI Multi-Master Module as Sensor

The tree structure can be expanded on the left side of the configuration area. It also contains a list of detected devices.



4.1.2.2.2 Add

In the case of offline configuration, the desired sensors can also be created manually via the context menu:

- 1. To assign a sensor to a DALI Multi-Master Module, first select the "**Sensors**" tab.
- 2. Right-click in the configuration area on the "**Sensors**" tab to display the context menu. A context menu appears.
- 3. In the context menu, select "Add sensor." A dialog appears:

Mu Add sensor		
וויא Button (Type 1)	•	Add instance
🐺 Generic input (Type 0)		
⊢¦ Button (Type 1)		
Here Absolute input (Type 2)		
Presence detector (Type 3)		
🔂 Light sensor (Type 4)		
		*
Amount 1		
	OK	Cancel

Figure 11: "Add Sensors" Dialog, Selection List

- 4. Select an instance type from the selection list.
- 5. Add your selection to the list of instances by clicking the **[Add Instance]** button. An instance of the selected type is added every time this button is clicked.
- 6. Add the desired number of instances in the desired order to the sensor by repeating steps 4 and 5 until all desired instances are listed.



📶 Add sensor	
⊢-∽¦ Button (Type 1)	Add instance
0 🐌 Presence detector (Type 3) (new)	
1 🔝 Light sensor (Type 4) (new)	
2 🔝 Light sensor (Type 4) (new)	
3 🔝 Light sensor (Type 4) (new)	
4 +-> Button (Type 1) (new)	
5 +-> Button (Type 1) (new)	
6 ⊦-℃ Button (Type 1) (new)	
	×
Amount 1 📮	
ОК	Cancel

Figure 12: Listed Instances

If necessary, you can change the order of the instances subsequently by using the or button. You can delete marked instances from your

list as needed with the 💌 button.



Note

Observe the manufacturer documentation!

The specific description of the instances of individual sensors is available in the manufacturer's documentation for the corresponding sensors.

 Now use the spinner to select the desired number of sensors and click [OK] to confirm the selection:



Figure 13: Select Number of Sensors



The sensors created are now listed in a table on the "**Sensors**" tab. The table contains the following information:

- Name
- Path
- Address
- Serial number

	Name	Path		Address	Serial Num	ber		
•	Neuer Sensor	New Line\						
	Presence detector	Light sensor	Light se	ensor	Button	Button	⊦->∫ Button	⊦->¦ Button
	Neuer Sensor (1)	New Line\						
	Presence detector	Light sensor	Light se	ensor ⊢->∫	Button +	Button	⊦-∽] Button	⊦-∽ Buttor
	Neuer Sensor (2)	New Line\						
	Presence detector	Light sensor	Light se	ensor	Button	Button	⊢∽¦ <u>Button</u>	H



9. Double-click in the respective table cell to edit the "Name," "Address" and "Serial Number" entries.

The **tree structure** can be expanded in the topology tree on the left side of the configuration area. It now contains the added sensors.

4.1.2.2.3 Edit

Context menu

To edit the entries of the individual sensors, right-click the desired row. A context menu appears.



Note

Multiple selection is possible!

To edit several sensors at the same time, click the desired entries while holding down the **[Shift]** key. Click and hold down the **[Ctrl]** button to select and deselect specific entries.



Table 16: Context Menu of the "Sensors" Table

Menu Item	Description
Delete Device(s)	Use this menu item to delete the selected device(s) from the list.
Delete Device(s) and Clear Short Address	Use this menu item to delete the selected device(s) from the table. In addition, the short address is also deleted from the respective device.
Show Device in Tree Structure	Use this menu item to highlight the selected device in the tree structure.
Reset Device(s) to Default Values	Use this menu item to reset the device parameters to the default values.
Add Sensor *)	Use this menu item to open the "Add Sensor" dialog. Add the desired number of instances in the desired order to the sensor (see also the previous section "Add"). Use the spinner to select the desired number of sensors, and click [OK] to confirm the selection.
Manage Instances *)	Use this menu item to open the "Manage Instances" dialog in order to edit sensor instances. There you can add instances to the sensor, delete instances or change their order. Confirm the changes by clicking the [OK] button.
Swap Name	Use this menu item to open another submenu in which the available sensors of the same type are listed. Click the desired sensor in this list to swap its name.
*) Note	ocumentation

The specific description of the instances of individual sensors is available in the manufacturer's documentation for the corresponding sensors.

Name

To change the name of a sensor, double-click in the corresponding table cell in the **Name** column. The table cell changes into an input field in which you can enter the required name.


Address

To enter an address for a sensor, double-click in the corresponding table cell in the **Address** column. The table cell changes into an input field in which you can enter the desired address.

Serial Number

To enter or change the serial number of a sensor, double-click in the corresponding table cell in the **Serial Number** column. The table cell changes into an input field in which you can enter the serial number.

4.1.2.2.4 Locate

To assign an appropriate name to an existing sensor, you have to identify its installation location.

- 1. Click the **[Locate Start]** button on the ribbon.
- 2. Click a device in the list to highlight it. The device emits a signal so that you can identify it and assign it an appropriate name.
- 3. Rename the device. Press the **[Return]** key on your keyboard to select and rename the following list entry.
- 4. Go through and name the devices individually.
- 5. When done, click the **[Locate Stop]** button on the ribbon.



4.1.2.3 Type 1 Sensors

4.1.2.3.1 Start Addressing



Note

Addressing applies to current tab!

Addressing is always only carried out for the devices of the tab currently selected (Control Gears, Sensors, Sensor Type 1, Sensor Type 2), not for all device types at the same time.

- 1. Make sure that the connection to the desired DALI Multi-Master Module has been established.
- 2. In the selection box, choose between the "Random Addressing" and "Physical Addressing" entries.
- 3. Click the **[Start]** button.
- 4. Click **[Yes]** to confirm the dialog.

The detected devices are listed on the "**Sensor Type 1**" tab. The **tree structure** can be expanded on the left side of the configuration area. It also contains a list of detected devices.

4.1.2.3.2 Add

In the case of offline configuration, the desired sensor types can also be created manually from the context menu:

- 1. To assign a type 1 sensor to a DALI Multi-Master Module, first select the "Sensor Type 1" tab.
- 2. Right-click in the configuration area on the "**Sensor Type 1**" tab to display the context menu. A context menu appears.
- In the context menu, select Add device(s) > Add pushbutton coupler or Add multi-sensor. The corresponding dialog appears.
- 4. Enter the desired number of pushbutton couplers or sensor couplers in the selection box and click **[Add]** to confirm your entry.

The desired number of type 1 sensors is listed in a **table** on the "**Sensor Type 1**" tab.

The table contains the following information:

- Name
- Path
- Address (input field "Adr" within the icon)
- Serial number



5. Double-click in the respective table cell to edit the "Name," "Address" and "Serial number" entries.

The **tree structure** can be expanded in the topology tree on the left side of the configuration area. It now contains the added type 1 sensors.

4.1.2.3.3 Edit

Context menu

To edit the entries of the individual buttons/sensors, right-click the desired row. A context menu appears.



Note

Multiple selection is possible!

To edit several devices at the same time, click the desired entries while holding down the **[Shift]** key. Click and hold down the **[Ctrl]** button to select and deselect specific entries.



able 17: Context Menu of the "Sensor Type 1" List	
Menu Item	Description
Delete Device(s)	Use this menu item to delete the selected device(s) from the list.
Delete Device(s) and Clear Short Address	Use this menu item to delete the selected device(s) from the list. In addition, the short address is also deleted from the respective device.
Show Device in Tree Structure	Use this menu item to highlight the selected device in the tree structure.
Reset Device(s) to Default Values	Use this menu item to reset the device parameters to the default values. Groups and scenes are also reset.
Add Device(s)	 Use this menu item to open a submenu: "Add Pushbutton Coupler": Use this menu item to open the dialog for adding pushbutton couplers. Use the spinner to select the desired number and click [Add] to confirm the selection. "Add Multi-Sensor": Use this menu item to open the dialog for adding multi-sensors. Use the spinner to select the desired number and click [Add] to confirm the selection.
Swap Name	Use this menu item to open another submenu in which the available sensors are listed. Click the desired sensor in the list to swap the name of the selected sensor with the name of the sensor you clicked on.

Name

To change the name of a button/sensor, double-click in the corresponding table cell. The area changes into an input field in which you can enter the desired name.

Address/Adr

To enter or change an address for a sensor type 1, click in the icon in the input field.

Serial number

To enter or change the serial number of a sensor, double-click in the corresponding cell. The area changes into an input field in which you can enter the serial number.



4.1.2.3.4 Locate

To assign an appropriate name to an existing device of sensor type 1, you have to identify its installation location.

- 1. Click the **[Locate Start]** button on the ribbon.
- 2. Click a device in the list to highlight it. The device emits a signal so that you can identify it and assign it an appropriate name.
- 3. Rename the device. Press the **[Return]** button on your keyboard to select and rename the following list entry.
- 4. Go through and name the devices individually.
- 5. When done, click the **[Locate Stop]** button on the ribbon.

4.1.2.4 Type 2 Sensors

4.1.2.4.1 Start Addressing



Note

Addressing applies to current tab!

Addressing is always only carried out for the devices of the tab currently selected (Control Gears, Sensors, Sensor Type 1, Sensor Type 2), not for all device types at the same time.

- 1. Make sure that the connection to the desired DALI Multi-Master Module has been established.
- 2. In the selection box, choose between the "Random Addressing" and "Physical Addressing" entries.



Note

"Physical Addressing" option for pushbutton couplers only Physical Addressing is only possible for sensor type 2 when no MSensors are connected!

- 3. Click the **[Start]** button.
- 4. Click **[Yes]** to confirm the dialog.

The detected devices are listed on the "**Sensor Type 2**" tab. The **tree structure** can be expanded on the left side of the configuration area. It also contains a list of detected devices.



4.1.2.4.2 Add

In the case of offline configuration, the desired sensor types can also be created manually from the context menu:

- 1. To assign a sensory type 2 to a DALI Multi-Master Module, first select the "Sensor Type 2" tab.
- 2. Right-click in the configuration area on the "**Sensor Type 2**" tab to display the context menu. A context menu appears.
- In the context menu, select Add device(s) > Add pushbutton coupler or Add multi-sensor. The corresponding dialog appears.
- 4. Enter the desired number of pushbutton couplers or multi-sensors in the selection box and click **[Add]** to confirm your entry.

The desired number of type 2 sensors is listed on the "**Sensor Type 2**" tab in a **table**.

The table contains the following information:

- Name
- Path
- Address ("Adr" input field with the sensors within the icon)
- Serial number
- 5. Double-click in the respective table cell to edit the "Name," "Address" and "Serial Number" entries.

The **tree structure** can be expanded in the topology tree on the left side of the configuration area. It now contains the added type 2 sensors.

4.1.2.4.3 Edit

Context menu

To edit the entries of the individual pushbutton couplers/multi-sensors, right-click the required row. A context menu appears.



Note

Multiple selection is possible!

To edit several devices at the same time, click the desired entries while holding down the **[Shift]** key. Click and hold down the **[Ctrl]** button to select and deselect specific entries.



Table 18: Context Menu for the "Sensor Type 2" List	
Menu Item	Description
Delete Device(s)	Use this menu item to delete the
	selected device(s) from the list.
Delete Device(s) and Clear Short	Use this menu item to delete the
Address	selected device(s) from the list. In
	addition, the short address is also
	deleted from the respective device.
Show Device in Tree Structure	Use this menu item to highlight the
	selected device in the tree structure.
Reset Device(s) to Default Values	Use this menu item to reset the device
	parameters to the default values.
Add Device(s)	Use this menu item to open a submenu:
	 "Add Pushbutton Coupler":
	Use this menu item to open the
	dialog for adding pushbutton
	couplers. Use the spinner to
	select the desired number and
	click [Add] to confirm the
	selection.
	 "Add Multi-Sensor":
	Use this menu item to open the
	dialog for adding multi-sensors.
	Use the spinner to select the
	desired number and click [Add]
	to confirm the selection.
Swap Name	Use this menu item to open another
	submenu in which the available sensors
	of the same type are listed.
	Click the desired sensor in this list to
	swap its name.

Name

To change the name of a button/sensor, double-click in the corresponding table cell. The area changes into an input field in which you can enter the desired name.

Address/Adr

To enter or change an address for a type 2 sensor, double-click in the respective table cell or click in the icon in the input field.

Serial number

To enter or change the serial number of a sensor, double-click in the corresponding cell. The area changes into an input field in which you can enter the serial number.



4.1.2.4.4 Locate

To assign an appropriate name to an existing device of sensor type 2, you have to identify its installation location.

- 1. Click the **[Locate Start]** button on the ribbon.
- 2. Click a device in the list to highlight it. The device emits a signal so that you can identify it and assign it an appropriate name.
- 3. Rename the device. Press the **[Return]** button on your keyboard to select and rename the following list entry.
- 4. Go through and name the devices individually.
- 5. When done, click the **[Locate Stop]** button on the ribbon.

4.1.2.5 Topology Tree

The ECGs and sensors are listed in a tree structure on the left side of the configuration area. The individual levels and sublevels can be expanded and collapsed using the adjacent arrow.

4.1.2.5.1 Select/Deselect Devices

- **Select device**: To select a single device, click the device to highlight it.
- Select multiple devices: To select multiple devices, hold down the [Ctrl] key and click all desired devices.
 Alternatively, you can also select successive devices by holding down the [Shift] key and clicking the first and last device.
- **Deselect device:** To deselect a specific device, hold down the [**Ctrl**] key and click the respective device. The selection is removed.



4.1.2.5.2 Change Order

To change the order of the devices, you have the option of resorting them by dragging and dropping. You can also move the devices up or down via the context menu.

▲ I_ New Line	
	Add New section
	Rename
	Reset Device(s) to Default Values
	Delete
	Restore Device
	Copy Settings
Þ 🕵	Paste
	Control Device Quiescent Mode
	Activate selection (maximum)
× ***	Activate selection (%)
	Deactivate selection
	Up
	Down
	Expand All
	Collapse All

Figure 15: Moving Devices with the Context Menu



Note

Sorting with drag and drop only for devices!

The drag and drop function is not for sorting ranges. If you try to drag and drop a range **above** another range, it will be moved **into** that range! Therefore, use the function ("Up"/"Down") in the context menu to sort ranges.

4.1.2.5.3 Activating/Deactivating Individual Devices, Groups or Scenes

You have the option of activating or deactivating individual ECGs, entire groups or scenes. The "**Activate Selection (%)**" menu item in the context menu opens a dialog in which you can set the activation value of a device; see also table "Context Menu of the Entries in the Tree Structure."



4.1.2.5.4 Context Menu

Right-click a level in the tree structure or a device in the sublevel to display the context menu for the respective selection. The following menu items are available:

Menu Item	Description
Add New Range	Use this menu item to create a new range to which you can add devices by dragging and dropping.
Rename	Use this menu item to change the respective node into an input field in which you can enter the desired name.
Reset Device(s) to Default Values	Use this menu item to reset the device parameters to the default values. For ECGs, groups and scenes are also reset.
Remove	This menu item is only enabled for areas. Use this menu item to remove the selected area from the tree structure.
Restore Device	Use this menu item to transfer the configuration settings of a specific device to a new replacement device if it has the same address as the previous one.
Copy Settings Groups Scenes General device configuration Device type specific All 	Use these menu items to copy the respective settings of the device currently selected to the cache to then transfer the settings to another device.



Table 19: Context Menu for the Entries in the T	ree Structure
Menu Item	Description
Insert	Use this menu item to transfer saved settings from the cache (see menu item "Copy Settings") to the device currently selected.
 Control Device Quiescent Mode Start Quiescent Mode Stop Quiescent Mode 	You can use these menu items to put the currently selected control device into or out of quiescent mode. If no control devices are selected, or no control devices are connected, the menu items are grayed out.
Activate Selection (Maximum) *)	This menu item activates the currently selected ECG. If multiple ECGs are selected, they are all activated. If no ECG is selected or no ECG is connected, the menu item is grayed out.
Activate Selection (%) *)	Use this menu item to open the dialog for entering the activation value of the currently selected ECG: Switch-on value Level settings DALI: 221 Value 41.0 % Figure 16: "Activation Value" Dialog If no ECG is selected or no ECG is connected, the menu item is grayed out.
Deactivate Selection *)	This menu item deactivates the currently selected ECG. If multiple ECGs are selected, they are all deactivated. If no ECG is selected or no ECG is connected, the menu item is grayed out.



able 19: Context Menu for the Entries in the Tree Structure	
Menu Item	Description
Up	Use this menu item to change the order of the selected range (or of the selected device). This moves your selection one place up. Moving is only possible within a range (or within a device section). A range and device section cannot be moved into each other. If your selection is in the top position of the range in question (or the device section in question), the menu item is grayed out.
Down	Use this menu item to change the order of the selected range (or of the selected device). This moves your selection one place down. Moving is only possible within a range (or within a device section). A range and device section cannot be moved into each other. If your selection is in the bottom position of the range in question (or the device section in question), the menu item is grayed out.
Expand All	Use this menu item to expand the tree structure completely.
Collapse All	Use this menu item to collapse the tree structure completely.

*) Only ECG



4.1.2.6 Setting up Building/Room Structure

To assign the ECGs and sensors in a clear manner, you can create and name areas and subareas in the tree structure as required.

- 1. Right-click the tree structure.
- 2. Select the Add New Area submenu item.
- 3. Click the new tree level and select the **Rename** menu item in the context menu. The selected area changes into an input field.
- Enter an intuitive name for the tree level, e.g., 1st Floor.
 Info: To create a sublevel (e.g., "Room 1") for the "1st Floor" tree level, the "1st Floor" level must be selected. In contrast, to create another level of the same type (e.g., "2nd Floor"), the higher-level level must be marked.
- 5. Repeat these steps until you have created the desired building/room structure.



Figure 17: Setting up the Tree Structure



Note

Edit level structure

You can drag and drop areas at any time to edit or correct the room structure, even subsequently.



4.1.2.6.1 Assign Devices to Your "Rooms"

You can drag and drop ECGs/sensors to the desired tree levels. In the example figure "Setting up the Tree Structure," these tree levels have been named as floors or rooms.

4.1.2.6.2 Assignment to Groups and Scenes

In addition to the name and address of an ECG, the topology tree also indicates whether the ECG is already assigned to a group and/or scene:

- A hyphen (-) means that the ECG is not yet assigned to a group/scene.
- A value indicates that the ECG is assigned to exactly this one group/scene.
- Three dots (...) mean that the ECG is assigned to more than one group/scene.

Using a tooltip, you can display a complete listing of which groups and/or scenes the ECG is assigned to. To do so, move the mouse cursor to the ECG in question:



Figure 18: Tooltip – Displaying Assignments to Groups/Scenes



4.1.3 Groups & Scenes



To assign your DALI control gears to groups and scenes and to set dimming values, colors or color temperatures, click the **[Groups & Scenes]** button.

In the configuration area, there are two trees for "Groups" and "Scenes." You can drag and drop devices from the tree structure to the group tree and scene tree to assign them. You can change/resort the assignment at any time by dragging and dropping.

You can also rearrange the order of the devices ("Up"/"Down") via the context menu in the group tree (or scene tree), but only within the respective group (or scene).

 ▲ Groups ▲ Groups ▲ Group 0 (Grp: 0) ▲ New Control Gear (ECG) (Adr: -, Grp: 0, St ▲ New Control Gear (ECG) (1) (Adr: -, Grp: 0, St ▲ New Control Gear (ECG) (100,0%) ▲ New Control Gear (ECG) (100,0%) ▲ New Control Gear (ECG) (1) (100,0%) ▲ New Control Gear (ECG) (1) (100,0%) ▲ New Control Gear (ECG) (1) (100,0%) ▲ New Control Gear (ECG) (2) (100,0%) ▲ New Control Gear (ECG) (3) (100,0%) ▲ Scene 2 (Scn: 2) ▲ Scene 3 (Scn: 3) ▲ Scene 4 (Scn: 4) ④ Scene 4 (Scn: 4) ④ Scene 5 (Scn: 5) ④ Scene 6 (Scn: 6) ④ Scene 7 (Scn: 7) 	Groups	Scenes
	 ▲ Groups ▲ Gi Group 0 (Grp: 0) ▲ New Control Gear (ECG) (Adr: -, Grp: 0, St ➡ New ▲ New ▲ New ▲ Set Values ▲ Level settings ▲ Group 2 ↓ Group 3 ↓ Group 4 ↓ Group 5 ▲ Group 5 	Image: Scene 0 (Scn: 0) Image: Scene 1 (Scn: 1) Image: Scene 1 (Scn: 1) Image: New Control Gear (ECG) (100,0%) Image: New Control Gear (ECG) (1) (100,0%) Image: New Control Gear (ECG) (2) (100,0%) Image: New Control Gear (ECG) (2) (100,0%) Image: New Control Gear (ECG) (2) (100,0%) Image: New Control Gear (ECG) (3) (100,0%)

Figure 19: View of the "Groups & Scenes, Set Scene Value" Configuration Area (Example)

4.1.3.1 Assign Groups

If you have dragged a device to a group in the group tree, an arrow appears on the left next to the respective group tree entry. You can click on the arrow to expand the devices assigned to the respective group.



4.1.3.2 Groups Context Menu

Right-click a group or device to display the context menu:

Table 20: "Groups" Context Menu

Menu Item	Description
Rename	Select this menu item to change the selected group into an input field in which you can enter the desired name. To exit the input field, confirm your entry by pressing the [Return] key on your keyboard or by clicking another group tree entry.
Remove Device(s) from Group	Use this menu item to remove attached devices from the group.
Activate Selection (Maximum)	This menu item activates the currently selected ECG(s). If no ECG is selected or no ECG is connected, the menu item is grayed out.
Activate Selection (%)	Use this menu item to open the dialog for entering the activation value of the currently selected ECG(s). If no ECG is selected or no ECG is connected, the menu item is grayed out.
Deactivate Selection	This menu item deactivates the currently selected ECG(s). If no ECG is selected or no ECG is connected, the menu item is grayed out.
Up *)	Use this menu item to change where the selected device is listed in the order. This moves your selection one place up. Moving is only possible within the respective group. If your selected ECG is in the top position of the group in question, the menu item is grayed out.
Down *)	Use this menu item to change where the selected device is listed in the order. This moves your selection one place down. Moving is only possible within the respective group. If your selected ECG is in the bottom position of the group in question, the menu item is grayed out.

*) Only for ECG



4.1.3.3 Assigning Scenes

If you drag a device or group of devices to a scene in the scene tree, the "**Set Scene Value**" dialog appears:

Set Values	×
- Level settings -	
Value	DALI: 254
ОК	Cancel

Figure 20: "Set Scene Value" Dialog (Example 1: Dimming Value)

Specify the dimming value settings in this dialog.

- 1. Select a value with the spinner or enter a value.
- 2. Check the **Send on change** checkbox.
- 3. Confirm your entries by clicking **[OK]**.

The dialog closes and an arrow appears on the left of the respective scene tree entry.

You can click on the arrow to expand the devices assigned to the respective scene. The specified dimming value of a device follows in square brackets.

With some devices (type 8 control gears), you can also specify the **Color value** and **Color temperature**:



Figure 21: "Set Scene Value" Dialog (Example 2: Color Value)



4.1.3.4 "Scene" Context Menu

Right-click a scene or attached devices to display the associated context menu:

Monu Itom	Description
	Description
Rename	Select this menu item to change the
	selected scene into an input field in
	which you can enter the desired name
	(e.g., "Room 1"). To exit the input field,
	confirm your entry by pressing the
	[Return] key on your keyboard or by
	clicking another scene tree entry.
Set Scene Values	Use this menu item to open the "Set
	Scene Value" dialog.
	See also section "Assigning Scenes."
Delete Device(s) from Scene	Use this menu item to remove attached
	devices from the scene.
Recall Scene	Only enabled if a connection is
	established and exactly one scene is
	selected. Use this menu item to retrieve
	the selected scene (broadcast).
Activate Selection (Maximum)	This menu item activates the currently
	selected ECG(s).
	If no ECG is selected or no ECG is
	connected, the menu item is grayed out.
Activate Selection (%)	Use this menu item to open the dialog
	for entering the activation value of the
	currently selected ECG(s).
	If no ECG is selected or no ECG is
	connected, the menu item is grayed out.
Deactivate Selection	This menu item deactivates the
	currently selected ECG(s).
	If no ECG is selected or no ECG is
	connected, the menu item is grayed out.

Table 21: "Scene" Context Menu



Menu Item	Description
Up *)	Use this menu item to change where the selected device is listed in the order. This moves your selection one place
	up. Moving is only possible within the respective scene. If your selected ECG is in the top position of the scene in question, the menu item is grayed out.
Down*)	Use this menu item to change where the selected device is listed in the order. This moves your selection one place down. Moving is only possible within the respective scene. If your selected ECG is in the bottom position of the scene in question, the menu item is grayed out.

Table 21: "Scene" Context Menu

^{*)}Only for ECG



4.1.4 Configuration



To read or write the configuration parameters from DALI network devices, click the **[Configuration]** button.

Additional tabs are available to you in the configuration area. The tabs displayed depend on which gear types are in the selection of the topology tree (tree structure).

If the top level (default name "New Line") of the tree structure is selected, corresponding tabs are created for each gear type below it.



Figure 22: Tabs of the "Configuration" View (Example)

Parameters that only have read permission (R) are highlighted in blue and cannot be changed. For parameters with read/write permission (R/W), you can double-click on a cell in the "Value" or "Scaled Value" column in order to activate the cell for editing.



4.1.4.1 "Control Gear (ECG) (Common)" Tab



You have access to the following parameters in the table on the "Control Gear (ECG) (Common)" tab:

Name	Description	Unit	Read/Write
Version Number	Version number		R
Physical Min level	Minimum physical lamp output	Percent [%]	R
Operating mode *)	Operating mode		R/W
Power on level *)	Lamp output with voltage recovery	Percent [%]	R/W
System failure level *)	Lamp output in the event of system malfunction (e.g., interrupted DALI line)	Percent [%]	R/W
Min level *)	Minimum lamp output	Percent [%]	R/W
Max level *)	Maximum lamp output	Percent [%]	R/W
Fade time	Fade time (time for the dimming value change)		R/W
Fade rate	Fade speed		R/W
Extended fade time	Is used if the value for "Fade time" is 0 and the device type "LED Module (DT6)" is used with a "Fast fade time" of 0 as well		R/W

Table 22: "Control Gears (ECG) (Common)" Tab

^{*)} The parameterization may be locked if the ECG is also of device type 19; see table "'Centrally Supplied Emergency Operation (DT19)' Tab."



4.1.4.2 "Fluorescent Light (DT0)" Tab

You have access to the following parameters in the table on the "Fluorescent Light (DT0)" tab:

Table 23: "Fluorescent Light (DT0)" Tab

Name	Description	Unit	Read/Write
Extended Version	Extended version number		R
Number			

4.1.4.3 "Emergency Lighting (DT1)" Tab



You have access to the following parameters in the table on the "**Emergency** Lighting (DT1)" tab:

|--|

Name	Description	Unit	Read/Write
Extended Version Number	Extended version number		R
Emergency Min Level	Minimum lamp output for emergency lighting: minimum brightness level to operate the light in emergency mode. The value can lie between "1" and "Emergency Max Level."	Percent [%]	R
Emergency Max Level	Maximum lamp output for emergency lighting: maximum brightness level to operate the light in emergency mode. The value can lie between "Emergency Min Level" and "254."	Percent [%]	R
Rated Duration	Duration test interval: duration that the lamp can be operated in emergency mode (e.g., based on the battery charge). The value can lie between 0 and 255. The value is multiplied by 2 min.		R
Features	Functions: information about type and functionality of the ECG.		R



Name	Description	Unit	Read/Write
Emergency Level	Lamp output for emergency lighting: brightness value to operate the lamp in emergency mode. The value must lie between "Emergency Min Level" and "Emergency Max Level."	Percent [%]	R/W
Function test delay time	Function test delay: maximum time period within which the function test is started again if it could not be started previously at the scheduled time, e.g., due to a low battery charge.	Hours [h]	R/W
Function test interval	Time after which a function test is carried out again.	Days [days]	R/W
Duration test delay time	Duration test delay: maximum time period within which the light duration test is started again if it could not be started previously at the scheduled time.	Hours [h]	R/W
Duration test interval	Time after which a light duration test is carried out again.	Weeks [weeks]	R/W
Test execution timeout	Maximum execution time: indicates when a test could not be performed even after the delay time.	Days [days]	R/W
Prolong time	Emergency mode shutoff delay: time period during which the light remains at the emergency level after returning to normal mode.	Minutes [min]	R/W

4.1.4.4 "Discharge Lamp (DT2)" Tab



You have access to the following parameters in the table on the "**Discharge** Lamp (DT2)" tab:

Table 25: "Discharge Lamp (DT2)" Tab

Name	Description	Unit	Read/Write
Extended Version Number	Extended version number		R
Thermal Overload Time	Duration of the thermal overload	Hours [h]	R
Features	Supported functions according to IEC 62386-203	Bits	R

4.1.4.5 "Low Voltage Halogen Lamp (DT3)" Tab

Ţ

You have access to the following parameters in the table on the "Low Voltage Halogen Lamp (DT3)" tab:

Table 26: "Low Voltage Halogen Lamp (DT3)" Tab

Name	Description	Unit	Read/Write
Extended Version Number	Extended version number		R
Features	Supported functions according to IEC 62386-204	Bits	R



4.1.4.6 "Filament Lamp (DT4)" Tab

Ç

You have access to the following parameters in the table on the "**Filament Lamp** (**DT4**)" tab:

Name	Description	Unit	Read/Write
Extended Version Number	Extended version number		R
Features, Byte 1	Supported functions according	Bits	R
Features, Byte 2	to IEC 62386-205	Bits	R
Features, Byte 3		Bits	R
Maximum Load Current Rating	Maximum load current: The value can lie between 0 and 255. The value 255 (= 38.25 A) means "unknown."	Amp [A]	R
Dimming Curve	Specification of the scale of the dimming curve: 0 = standard logarithmic 1 = linear		R/W

4.1.4.7 "Converting the Digital Signal into a DC Voltage (DT5)" Tab



You have access to the following parameters in the table on the "**Converting the Digital Signal into a DC Voltage (DT5)**" tab:

Name	Description	
Extended Version Number	Extended version number	
Converter Features	Converter functions: information about type and functionality of the ECG	

Table 28: "Converting the Digital Signal into a DC Voltage (DT5)" Tab



4.1.4.8 "LED Module (DT6)" Tab



You can view and set some of the following parameters in the table on the "**LED Module (DT6)**" tab:

Name	Description	Unit	Read/Write
Extended Version Number	Extended version number		R
Min Fast Fade Time	Min. fast fade time: The value can lie between 0 and 27. The value is multiplied by 25 ms.	Milli- seconds [ms]	R
Gear Type	Device type: information about type and functionality of the ECG.		R
Features	Features: information about the functionality of the ECG.		R
Fast Fade Time	Fast fade time: the value can lie between 0 and 27. The value is multiplied by 25 ms.	Milli- seconds [ms]	R/W
Dimming Curve	 Dimming curve: The response indicates what dimming curve is currently used: "0" means standard logarithmic dimming curve "1" means linear dimming curve 		R/W

Table 29: "LED Module (DT6)" Tab





4.1.4.9 "Switching Function (DT7)" Tab

--\

You have access to the following parameters in the table on the "**Switching Function (DT7)**" tab:

Table 30:	"Switching	Function	(DT7)" Tab
10010 00.	owncorning	i unouon	(2	, 100

Name	Description	Unit	Read/Write
Extended Version Number	Extended version number		R
Gear Type	Device type: information about type and functionality of the ECG.		R
Features	Features: information about the functionality of the ECG.		R
Up Switch On Threshold	Switch-on threshold for switch up	Percent [%]	R/W
Up Switch Off Threshold	Switch-off threshold for switch up	Percent [%]	R/W
Down Switch On Threshold	Switch-on threshold for switch down	Percent [%]	R/W
Down Switch Off Threshold	Switch-off threshold for switch down	Percent [%]	R/W
Error Hold Off Time	 Error hold time: minimum time that an error must exist for it to be displayed: "0" means the error is immediately displayed "255" means the error is not displayed 	Seconds [s]	R/W



4.1.4.10 "Color Control (DT8)" Tab



You can specify the color settings of a device on the "Color Control (DT8)" tab:

Table 31: "Color Control (DT8)" Tab

Name	Description	Unit	Read/Write
Extended Version Number	Extended version number		R
xy-Coordinate Capable	Supports xy coordinates		R
Color Temperature Capable	Supports color temperature		R
Automatic activation	Automatic activation		R/W
Color va	lue and color temperature:		
Power On Color	Color after voltage recovery	Color [Color]	R/W
System Failure	Color in the event of system	Color	R/W
Color	malfunctions	[Color]	
Color ter	nperature:		
Color Temperature	Physically coolest color	Color	R/W
Tc Physical Coolest	temperature Tc	[Color]	
Color Temperature	Physically warmest color	Color	R/W
Tc Physical Warmest	temperature Tc	[Color]	
Color Temperature	Coolest color temperature Tc	Color	R/W
Tc Coolest		[Color]	
Color Temperature	Warmest color temperature Tc	Color	R/W
I c Warmest		[Color]	

Click the "Scaled Value" table column to open the "**Set Scene Value**" dialog, where you can set the **Color value** or **Color temperature**. Click the **[OK]** button to confirm your entries.



WAGO Software WAGO DALI Configurator

	Set Values	X	ing (DT	T1)	Digita	al Signal into DC Volta	age (DT5)
Name	Level settings			Colour	Value	Scaled Value	Unit
xy-Coordi		DALI: 254					
Colour Te	Value	100.0 % 🚽	r)				
Automatic	Ser	nd when changed			1		
Power On	Colour settings				19026,3	xy: 0.290, 0.548	Color
System Fa	Colour value	•			20499,2	xy: 0.313, 0.329	Color
Colour Te Colour Te	Colour Temp.		+ Phys	ikalisch Ki	58 ×	17241 K 1600 K	Color
Colour Te		Ŭ		R 191	-	<u>10000 K</u>	Color
Colour Te	ОК			G 254		<u>2898 K</u>	Color
				B 61			
			. ≻ <			● ✓	192.168.1.7
				#BFFE	3D		

Figure 23: Change Color Settings – Color Value

								-
2 🔛 Co	ntrol Gear (Comm	on) 📭	mergency Lig	hting (DT1)	🕅 Digita	al Signa	al into DC Volta	ge (DT5)
🐥 LE	Set Values		×) 🛛 🚷 Colour C	Control (D	OT8)	⊦-∖ Push But	ton (DT1)
Name	 Level settings 				Value	Scale	d Value	Unit
xy-Coor			DALI: 254					
Colour 1	Value	100.0	% 🗍	tur)				
Extende								
Automa		Send when	changed		1			
Power C	L				24065,3	<u>x</u>	<u>y: 0.367, 0.523</u>	Color
System	Colour settings				20499,2	<u>x</u>	y: 0.313, 0.329	Color
Colour 1	Colour valu	ue		Tc Physikalisch Kü	58	1	<u>.7241 K</u>	Color
Colour 1	Colour Ten	np. 1000 k	C 🌲	r Tc Physikalisch \	625	1	<u>600 K</u>	Color
Colour 1	L			te)	100	1	<u>.0000 K</u>	Color
Colour 1	ОК	Car	cel	mste)	345	2	<u>898 K</u>	Color

Figure 24: Change Color Settings - Color Temperature



4.1.4.11 "Load Referencing (DT15)" Tab

黛

You have access to the following parameters in the table on the "Load Referencing (DT15)" tab:

Table 32: "Load Referencing (DT15)" Tab

Name	Description	Unit	Read/Write
Extended Version Number	Extended version number		R
Measurement Failed	An error occurred during measurement.		R

4.1.4.12 "Thermal Gear Protection (DT16)" Tab

6

You have access to the following parameters in the table on the "**Thermal Gear Protection (DT16)**" tab:

Table 33: "Thermal Gear Protection (DT16)" Tab

Name	Description	Unit	Read/Write
Extended Version Number	Extended version number		R
Overload Counter	Number of overload events		R
Shutdown Counter	Number of shutdown events		R

4.1.4.13 "Dimming Curve Selection (DT17)" Tab

•

You have access to the following parameters in the table on the "**Dimming Curve Selection (DT17)**" tab:

|--|

Name	Description	Unit	Read/Write
Extended Version Number	Extended version number		R
Dimming Curve	Dimming curve: 0 = disabled 1 = enabled		R/W



4.1.4.14 "Centrally Supplied Emergency Operation (DT19)" Tab



You have access to the following parameters in the table on the "**Centrally Supplied Emergency Operation (DT19)**" tab:

Table 35: "Centrally Supplied Emergency Operation (DT19)" Tab

Name	Description	Unit	Read/Write
Extended Version Number	Extended version number		R
Infinite Lock Active	Permanent lock is active		R
Emergency Physical Max Level	Maximum physical lamp output of the emergency lighting		R
Parameter Locked *)	Locking and unlocking parameters when the corresponding manufacturer code is written and the permanent lock is not enabled (see "Infinite Lock Active"):		R/W
	0 = access not blocked		
	1 = access blocked		
Lock Code *)	Lock code to set "Parameter Locked"		R/W
Emergency Level	Lamp output for emergency lighting: The value can lie between 0 and 100 %. Processing of the value may be locked.	Percent [%]	R/W
Emergency Mode Condition	Specifies the event whose occurrence enables the emergency lighting: 0 = short circuit on the DALI bus 1 = DALI power supply failure Processing of the value may be locked.		R/W

^{*}) The parameters form a grouping, so they are highlighted in yellow, since changing the value of "Parameter Locked" always requires entering the corresponding manufacturer code.



4.1.4.15 "Load Shedding (DT20)" Tab



You have access to the following parameters in the table on the "Load Shedding (DT20)" tab:

Tabla	26.	"Lood	Shadding	יייערדס)	Tah
rable	30.	Luau	Sneuung	(DIZ0)	rap

Name	Description	Unit	Read/Write
Extended Version Number	Extended version number		R
Reduction Factor 1	Reduction factor 1	Percent	R/W
	The value can lie between 0 and 100.	[%]	
	100 % reduction means switching the light off.		
Reduction Factor 2	Reduction factor 2	Percent	R/W
	The value can lie between 0 and 100.	[%]	
	100 % reduction means switching the light off.		
Reduction Factor 3	Reduction factor 3	Percent	R/W
	The value can lie between 0 and 100.	[%]	
	100 % reduction means switching the light off.		

4.1.4.16 "Thermal Lamp Protection (DT21)" Tab



You have access to the following parameters in the table on the "**Thermal Lamp Protection (DT21)**" tab:

Table 37 [.] "Thermal Lamp Protection	(DT21)" Tah
Table 57. Thermal Lamp Trolection) Tab

Name	Description	Unit	Read/Write
Extended Version Number	Extended version number		R
Overload Counter	Number of overload events		R
Shutdown Counter	Number of shutdown events		R



4.1.4.17 "Non-Replaceable Light Source (DT23)" Tab



You have access to the following parameters in the table on the "**Non-Replaceable Light Source (DT23)**" tab:

Table 38: "Non-Replaceable Light Source (DT23)" Tab

Name	Description	Unit	Read/Write
Extended Version	Extended version number		R
Number			

4.1.4.18 "Integrated Bus Power Supply (DT49)" Tab



You have access to the following parameters in the table on the "**Integrated Bus Power Supply (DT49)**" tab:

Table 39: "Integrated Bus Power Supply (DT49)" Tab

Name	Description	Unit	Read/Write
Extended Version Number	Extended version number		R
Memory Bank Version	Version of the memory bank		R
Guaranteed Supply Current	Guaranteed supply current of integrated DALI bus power supply	Milliampere [mA]	R
Maximum Supply Current	Maximum supply current of integrated DALI bus power supply	Milliampere [mA]	R
Bus Power Supply Status	DALI bus power supply status 0 = off 1 = on		R

4.1.4.19 "Memory Bank 1 Extension (DT50)" Tab

OEM

You have access to the following parameters in the table on the "**Memory Bank 1 Extension (DT50)**" tab:



Table 40: "Memory Bank 1	Extension (DT50)" Tab		D 1004 14
Name	Description	Unit	Read/Write
Extended Version Number	Extended version number		R
Manufacturer GTIN	Luminaire manufacturer GTIN with manufacturer specific prefix to derive manufacturer name		R
Identification Number	Luminaire identification number		R
Content Format ID	Format ID of the content		R
Year of Manufacture	Luminaire year of manufacture [00 - 99]	Year [YY]	R
Week of Manufacture	Luminaire week of manufacture [1 - 53]	Week [WW]	R
Nominal Input Power	Nominal input power	Watt [W]	R
Power at Minimum Dim Level	Power at minimum dim level	Watt [W]	R
Nominal Minimum AC Mains Voltage	Nominal minimum AC mains voltage	Volt [V]	R
	[90 – 480]		
Nominal Maximum AC Mains Voltage	Nominal maximum AC mains voltage	Volt [V]	R
	[90 – 480]		
Nominal Light Output	Nominal light output	Lumen [lm]	R
CRI	CRI [0 – 100]		R
ССТ	CCT [0 – 17000]	Kelvin [K]	R
Light Distribution Type	Light Distribution Type 0 = not specified 1= type I 2 = type II 3 = type III 4 = type IV 5 = type V 6 - 254 = reserved for additional types		R



Name	Description	Unit	Read/Write
Luminaire Color	Luminaire color [0 – 255]		R
Luminaire Identification	Luminaire identification number [0 – 255]		R

Table 40: "Memory Bank 1 Extension (DT50)" Tab

4.1.4.20 "Energy Reporting (DT51)" Tab

``

You have access to the following parameters in the table on the "Energy Reporting (DT51)" tab:

Table 41: Energy Reporting (DT51)" T

Name	Description	Unit	Read/Write
Extended Version Number	Extended version number		R
Memory Bank 202 Version	Version of the memory bank 202		R
Memory Bank 203 Version	Version of the memory bank 203		R
Memory Bank 204 Version	Version of the memory bank 204		R
Scale Factor Active Energy	Scale factor for measured active energy values in this memory bank (expressed as power of 10)		R
Active Energy	Active energy (depends on scale factor)	Watt- hours [Wh]	R
Scale Factor Active Power	Scale factor for measured active power values in this memory bank (expressed as power of 10)		R
Active Power	Active power (depends on scale factor)	Watt [W]	R



Name	Description	Unit	Read/Write
Scale Factor Apparent Energy	Scale factor for measured apparent energy values in this memory bank (expressed as power of 10)		R
Apparent Energy	Apparent energy (depends on scale factor)	Volt- ampere- hours [VAh]	R
Scale Factor Apparent Power	Scale factor for measured apparent power values in this memory bank (expressed as power of 10)		R
Apparent Power	Apparent power (depends on scale factor)	Volt- ampere [VA]	R
Scale Factor Active Energy Load Side	Scale factor for measured active energy loadside values in this memory bank (expressed as power of 10)		R
Active Energy Load Side	Active energy load side (depends on scale factor)	Watt- hours [Wh]	R
Scale Factor Active Power Load Side	Scale factor for measured active power loadside values in this memory bank (expressed as power of 10)		R
Active Power Load Side	Active power load side (depends on scale factor)	Watt [W]	R


"Diagnostics and Maintenance (DT52)" Tab 4.1.4.21

łŸ

You have access to the following parameters in the table on the "Diagnostics and Maintenance (DT52)" tab:

Name	Description	Unit	Read/Write
Extended Version Number	Extended version number		R
Memory Bank 205 Version	Version of the memory bank 205 (That memory bank provides diagnostics and maintenance information related to the control gear)		R
Memory Bank 206 Version	Version of the memory bank 206 (That memory bank provides diagnostics and maintenance information related to the light source.)		R
Memory Bank 207 Version	Version of the memory bank 207 (That memory bank provides information to enable predictive maintenance of the luminaire.)		R
ECG Operating Time	Operating time of the ECG (Counts the control gear operating time in seconds if the control gear is powered. The scaled value is given in minutes.)	Minutes [min]	R
ECG Start Counter	Start counter of the ECG (Counts the number of control gear starts that are induced by a power cycle of the external supply. A power cycle is counted if the power on time is at least 600 ms.) [0 - 16777213]		R
ECG External Supply Voltage	External supply voltage of the ECG (RMS (Root Mean Square) value of external supply voltage)	Volt root mean square	R

[0 - 65533]



[Vrms]

Table 42: "Diagnostics and Maintenance (DT52)" Tab			
Name	Description	Unit	Read/Write
ECG External Supply Voltage Frequency	External supply voltage frequency of the ECG (Frequency of external supply voltage. Indication as follows: 0 in case of 0 Hz (pure DC or rectified AC voltage). Example: 17 in case of 16.7 Hz, 50 in case of 50 Hz. [0 - 253]	Herz [Hz]	R
ECG Power Factor	Power factor of the ECG (100 = the ECG has a power factor of 1.00) [0 - 100]		R
ECG Overall Failure Condition	Overall failure condition of the ECG 0 = no ECG error 1 = ECG error		R
ECG Overall Failure Condition Counter	Overall failure condition counter of the ECG (A failure condition counter counts up if a 0 to 1 transitions of the failure condition flag that is related to the counter occurs.) [0 - 253]		R
ECG External Supply Under- voltage	External supply undervoltage of the ECG 0 = external supply voltage ≥ external supply undervoltage 1 = external supply voltage < external supply undervoltage		R
ECG External Supply Under- voltage Counter	External supply undervoltage counter of the ECG [0 - 253]		R

Manual

Version 3.3.1



Table 42: "Diagnostics and	Table 42: "Diagnostics and Maintenance (DT52)" Tab			
Name	Description	Unit	Read/Write	
ECG External Supply Overvoltage	External supply overvoltage of the ECG		R	
	0 = external supply voltage ≤ external supply overvoltage 1 = external supply voltage > external supply overvoltage			
ECG External Supply Overvoltage Counter	External supply overvoltage counter of the ECG [0 - 253]		R	
ECG Output Power Limitation	Output power limitation of the ECG 0 = no ECG output power overrun 1 = ECG output power range is exceeded (This is the case when the lamp connected to the ECG requires more current than the ECG can supply)		R	
ECG Output Power Limitation Counter	Output power limitation counter of the ECG [0 - 253]		R	
ECG Thermal Derating	Thermal derating of the ECG1 = the output current of the control gear may be reduced.		R	
ECG Thermal Derating Counter	Thermal derating counter of the ECG [0 - 253]		R	
ECG Thermal Shutdown	Thermal shutdown of the ECG 1 = Lamp switched off due to overtemperature		R	
ECG Thermal Shutdown Counter	Thermal shutdown counter of the ECG [0 - 253]		R	



Table 42: "Diagnostics and	Table 42: "Diagnostics and Maintenance (DT52)" Tab			
Name	Description	Unit	Read/Write	
ECG Temperature	Temperature of the ECG (Indicates the internal temperature of the control gear. Offset Value: 60) Example: A Value of 60 means 0 °C, a value of 0 means -60 °C.	Degree Celsius [°C]	R	
ECG Output Current Percent	Output current percent of the ECG (Output current in % related to the nominal output current setting of the control gear.) [0 - 100]	Percent [%]	R	
Light Source Start Counter Resettable	Counts the starts of the light source, one step up for every 0 to 1 transition. [0 - 16777213]		R/W	
Light Source Start Counter	Counts the starts of the light source, one step up for every 0 to 1 transition. [0 - 16777213]		R	
Light Source On Time Resettable	Counts the light source operating time in seconds. (The scaled value is given in minutes.)	Minutes [min]	R/W	
Light Source On Time	Counts the light source operating time in seconds. (The scaled value is given in minutes.)	Minutes [min]	R	
Light Source Voltage	Indicates the actual control gear output voltage. [0 - 65533]	Volt [V]	R	
Light Source Current	Indicates the actual control gear output current. [0 - 65533]	Ampere [A]	R	



Table 42: "Diagnostics and Maintenance (DT52)" Tab			
Name	Description	Unit	Read/Write
Light Source Overall Failure Condition	Overall failure condition of the Light source. Reflects the status of "lampFailure" 1 = Error 0 = No error		R
Light Source Overall Failure Condition Counter	Overall failure condition counter of the light source		R
Light Source Short Circuit	Short circuit of the light source 1 = the light source has a lamp f ailure with short circuit 0 = no short circuit		R
Light Source Short Circuit Counter	Short circuit counter of the light source		R
Light Source Open Circuit	Open circuit of the light source 1 = the light source has a lamp failure with open circuit 0 = no open circuit		R
Light Source Open Circuit Counter	Open circuit counter of the light source [0 - 253]		R
Light Source Thermal Derating	 Thermal derating of the light source (The value of the threshold is such that lifetime and/or performance of the light source could be affected if the "Light Source Temperature" is higher than the threshold.) 1 = temperature is higher than the threshold, the output current of the control gear may be reduced 0 = temperature is below the threshold 		R
Light Source Thermal Derating Counter	Thermal derating counter of the light source [0 - 253]		R



Name	Unit	Read/Write	
Light Source	Thermal shutdown of the light	Unit	R
Thermal Shutdown	source		
	1 = temperature is above the		
	threshold value		
	threshold value		
Light Source	Thermal shutdown counter of the		R
Thermal Shutdown	light source		
Counter	[0 - 253]		
Light Source	Indicates the temperature of the	Degree	R
Temperature	light source.	Celsius	
	(Offset value: 60)	[°C]	
	E		
	Example:		
	a value of 0 means -60 °C.		
	[0 - 253]		
Rated Median	Represents the rated median	Hours	R
Useful Life Of	useful life time of the luminaire	[h]	
Luminaire	and other components		
	(Scaling factor and unit: 1000 h)		
	Example:		
	A value of 50 means 50000 h		
	[0 - 253]		
Internal ECG	Represents the internal control	Degree	R
Reference	gear reference temperature	Celsius	
remperature			
	Example:		
	A value of 60 means 0 °C,		
	a value of 0 means -60 °C.		
	[0 - 253]		



Table 42: "Diagnostics and Maintenance (DT52)" Tab			
Name	Description	Unit	Read/Write
Rated Median Light Souce Starts	Represents the rated median useful light source starts of the luminaire (Scaling factor and unit: 100)		
	Example: A value of 5000 means 500000 starts		

4.1.4.22 "Memory Banks" Tabs



There is a "Memory Banks" tab for ECGs and sensors.

Note

Read memory banks for a selected device

The memory banks for a selected device must be read before they can be displayed! Click the **[Read]** button on the ribbon.



Note

Observe the manufacturer's documentation!

The specific description for memory banks of individual ECGs/sensors is available in the manufacturer's documentation of the respective ECG/sensor.

4.1.4.22.1 Multiple Devices

If multiple devices are selected, you can write one individual byte to the respective memory bank in all selected devices.

- 1. First, select the desired value from the "Write Value" list box.
- 2. Select the relevant address from the "For address" list box.
- 3. Select the desired memory bank from the "To memory bank" list box.
- 4. Click the **[Write]** button on the ribbon to confirm your selection.









Note

The "Lock byte" is not written automatically

A memory bank is initially "read only." The "Lock byte" is used to (un)lock write access. To allow access to the memory bank, the "Lock byte" must be written first.

4.1.4.22.2 Single Device

If a single device is selected, multiple bytes can also be written to the memory bank:



💽 Control Gear (Common)	LED Module	e (DT6) 🛛 🚷 Colour Co	ontrol (DT8)	🚺 Memory Banks
Memory Bank 0 🔹]			
Memory Bank 0	Value (decimal)	Value (hexadecimal)		
Memory Bank 1 (not yet read	I) 13	17		
0x01	132	84		
0x02	2	02		
0x03	8	08		
0x04	75	4B		
0x05	109	6D		
0x06	9	09		
0x07	188	BC		
0x08	235	EB		
0x09	3	03		
0x0A	15	OF		
0x0B	253	FD		
0x0C	44	2C		
0x0D	13	0D		
0x0E	0	00		
0x0F	146	92		
0x10	3	03		
0x11	0	00		
0x12	16	10		
0x13	194	C2		
0x14	166	A6		
0x15	18	12		
0x16	32	20		
0x17	131	83		

Figure 26: Write Memory Bank, Single Device (Example)

4.1.4.23 "Sensor (Common)" Tab

7∱K

You have access to the following parameters in the table on the "**Sensor** (Common)" tab:

Table 43:	"Sensor	(Common))" Tab
		`	/

Name	Description	Read/Write
Version number	Version number	R
	(Version of the specification	
	(IEC 62386-103) according to which	
	this device (Control Device) was	
	made.)	



Namo	Description	Poad/Write
Name	Description	
Operation mode	Operating mode (States identified by a number in the range [0.255], characterized by a collection of variables and memory settings. Operating modes are used to select functions to be displayed by a device, including its required response to commands.)	R/W
	Note: Several operating modes are possible. Their function is manufacturer/device-specific.	DAV
Power cycle notification	"On"/"off" notification (Upon completion of its external power cycle, a bus unit shall generate one power cycle event message per device if notification is enabled for at least one of its logical units) 0 = not active	R/W
	1 = active	
Application controller enabled	Control device is activated (The control unit is either "active" or "not active", which is to be indicated by this setting. When disabled, the ECG may not send forward frames, except for power cycle notification, if applicable. This setting shall not affect the response to incoming forward transmissions, including the transmission of backward frames after requests.)	R/W
	0 = not active 1 = active	
Application controller always active	Control device is active continuously (If a control unit is present, it can be continuously active). 0 = not active 1 = active	R



4.1.4.24 "Universal Input (IT0)" Tab

7∱K

You have access to the following parameters in the table on the "**Universal Input** (IT0)" tab:

Table 44:	"Universal	Input	(IT0)	" Tab
	0		(•••)	

Name	Description	Read/Write
Instance active	Instance active With this parameter the sending of signals/events for this instance can be activated/deactivated.	R/W
	0 = not active 1 = active	
Resolution	Resolution of the input signal (The accuracy of the signal is determined by "Resolution". The resolution used is manufacturer- specific)	R
Event filter	Event filter (The event filter can be used to switch specific events on or off. As long as the event filter of a specific event is deactivated, the event in question is not created).	R/W
Event scheme	Event address scheme: a definition according to which addressing type events are to be reported. (The instance of an input device must use the selected event source addressing scheme when it transmits an event message, see table "Event addressing scheme" below).	R/W
Event priority	Event priority (Specifies the priority with which events are sent. The lower the value set here, the higher the priority). [2 - 5]	R/W



"eventScheme"	Description
0 (default)	Instance addressing
1	Device addressing by short address and instance type.
2	Device/instance addressing by short address and instance
2	number.
3	Device group addressing by device group and instance type.
Л	Instance group addressing by instance group and instance
4	type.

Table 15: Event Addressing Sab

4.1.4.25 "Button (IT1)" Tab



You have access to the following parameters in the table on the "Button (IT1)" tab:

Name	Description	Unit	Read/Write
Extended Version Number	Version number (Version of the specification (IEC 62386-103) according to which this instance type (Button) was made.)		R
Instance active	Instance active With this parameter the sending of signals/events for this instance can be activated/deactivated. 0 = not active 1 = active		R/W
Resolution	Resolution of the input signal (The accuracy of the signal is determined by "Resolution". The resolution used is manufacturer-specific)		R
Event scheme	Event address scheme: a definition according to which addressing type events are to be reported. (The instance of an input device must use the selected event source addressing scheme when it transmits an event message, see table "Event addressing scheme").		R/W



Name	Description	Unit	Read/Write
Event priority	Event priority	Onit	
	(Specifies the priority with which		
	events are sent. The lower the		
	value set here, the higher the		
	priority).		
	[2 - 5]		
Button released	Enable "button released" event		R/W
event enabled			
	0 = not active		
	1 = active		
Button pressed	Enable "Button pressed" event.		R/W
event enabled			
	0 = not active		
	1 = active		
Short press event	Enable "Short button press"		R/W
enabled	event.		
	0 = not active		
Double press event	Enable "double button press"		R/W
enabled	event.		
	0 = not active		
	1 = active		
Long process start	Frable "lang button process start"		
event enabled	event		r///
eventenabled	event.		
	0 = not active		
	1 = active		
l ong press repeat	Enable "repeat long button		R/W
event enabled	press" event.		
	0 = not active		
	1 = active		
Long press stop	Enable "long press stop" event.		R/W
event enabled			
	0 = not active		
	1 = active		
Button stuck / free	Enable "button stuck" event.		R/W
event enabled			
	0 = not active		
	1 = active		



Table 46: "Button (IT1)" Tab					
Name	Description	Unit	Read/Write		
Min Short Press Time	Minimum short button press time (Physical smallest possible time for the detection of a short button press).	Seconds [s]	R		
Min Double Press Time	Minimum double button press time (Physical smallest possible time for the detection of a double button press).	Seconds [s]	R		
Short Press Time	Short button press (The time that distinguishes a short button press from a long one. If a key is released within this time, either a "short button press" or a "double button press" will follow; if the key is held down beyond this time, a "long button press follows.)	Seconds [s]	R/W		
Double Press Time	Double button press (The time that distinguishes a single (short) button press from a double button press. If a button is not pressed again within this time, a "short button press" is triggered; otherwise a "double button press" is triggered.)	Seconds [s]	R/W		
Repeat Time	Repetition time (The repetition interval of "long button press" events)	Seconds [s]	R/W		
Stuck Time	Time for "button stuck" (If a button remains pressed or jumps back and forth beyond this period, it is assumed to be broken).	Seconds [s]	R/W		



4.1.4.26 "Absolute Input (IT2)" Tab

<u>.....</u>

You have access to the following parameters in the table on the "**Absolute Input** (IT2)" tab:

Name	Description	Unit	Read/Write
Extended Version Number	Version number (Version of the specification (IEC 62386-103) according to which this instance type (Absolute input) was made.)		R
Instance active	Instance active With this parameter the sending of signals/events for this instance can be activated/deactivated. 0 = not active 1 = active		R/W
Resolution	Resolution of the input signal (The accuracy of the signal is determined by "Resolution". The resolution used is manufacturer-specific)		R
Event scheme	Event address scheme: a definition according to which addressing type events are to be reported. (The instance of an input device must use the selected event source addressing scheme when it transmits an event message, see table "Event addressing scheme").		R/W



Name	Description	Unit	Read/Write
Event priority	Event priority (Specifies the priority with which events are sent. The lower the value set here, the higher the priority).		R/W
	[2 - 5]		
Position event enabled	Enable "Position" event 0 = not active		R/W
Dead Time	Dead time (Specifies the time within which no events (signals) are sent despite a change in value. If the value was 0, every value change would be sent immediately). [0 - 255] (0 - 12.75s)	Seconds [s]	R/W
Report Time	Report time (Cycle time after which an event is sent, even if the input signal has not changed) [0 - 255] (0 - 255s)	Seconds [s]	R/W



4.1.4.27 "Presence Detector (IT3)" Tab



You have access to the following parameters in the table on the "**Presence Detector (IT3)**" tab:

Table 48: "Presence Detector (I1	۲3)"	Tab
----------------------------------	------	-----

Name	Description	Unit	Read/Write
Extended Version Number	Version number (Version of the specification (IEC 62386-103) according to which this instance type (Presence detector) was made.)		R
Instance active	Instance active With this parameter the sending of signals/events for this instance can be activated/deactivated. 0 = not active 1 = active		R/W
Resolution	Resolution of the input signal (The accuracy of the signal is determined by "Resolution". The resolution used is manufacturer-specific)		R
Event scheme	Event address scheme: a definition according to which addressing type events are to be reported. (The instance of an input device must use the selected event source addressing scheme when it transmits an event message, see table "Event addressing scheme").		R/W
Event priority	Event priority (Specifies the priority with which events are sent. The lower the value set here, the higher the priority). [2 - 5]		R/W



Name	Description	Unit	Read/Write
Event Occupied enabled	Enable "Occupied" event.		R/W
	0 = not active		
	1 = active		
Event Vacant enabled	Enable "Vacant" event.		R/W
	0 = not active		
	1 = active		
Event Repeat enabled	Enable "Repeat" event.		R/W
	0 = not active 1 = active		
Event Movement enabled	Enable "Movement" event.		R/W
	0 = not active		
	1 = active		
Event No Movement enabled	Enable "No movement" event.		R/W
	0 = not active		
	1 = active		
Dead Time	Dead time (Specifies the time within which no events (signals) are sent despite a change in value. If the value was 0, every value change would be sent immediately).	Seconds [s]	R/W
	[0 - 255] (0 - 12.75s)		
Hold Time	Hold time (The hold time (display time) after a motion event).	Minutes [min]	R/W
	[0 - 255] (0 – 42.3min)		
Report Time	Report time (Cycle time after which an event is sent, even if the input signal has not changed)	Seconds [s]	R/W
	[U - 255] (U - 255s)		



4.1.4.28 "Light Sensor (IT4)" Tab

Ix

You have access to the following parameters in the table on the "Light Sensor (IT4)" tab:

Table	49:"Light	Sensor	(IT4)"	Tab
Tuble	HO. LIGHT	0011301	(117)	Tub

Name	Description	Unit	Read/Write
Extended Version Number	Version number (Version of the specification (IEC 62386-103) according to which this instance type (Light sensor) was made.)		R
Instance active	Instance active With this parameter the sending of signals/events for this instance can be activated/deactivated. 0 = not active 1 = active		R/W
Resolution	Resolution of the input signal (The accuracy of the signal is determined by "Resolution". The resolution used is manufacturer-specific)		R
Event scheme	Event address scheme: a definition according to which addressing type events are to be reported. (The instance of an input device must use the selected event source addressing scheme when it transmits an event message, see table "Event addressing scheme").		R/W
Event priority	Event priority (Specifies the priority with which events are sent. The lower the value set here, the higher the priority). [2 - 5]		R/W



Name	Description	Unit	Read/Write
Illuminance level event enabled	Enable "Illuminance level" event.		R/W
	0 = not active 1 = active		
Dead Time	Dead time (Specifies the time within which no events (signals) are sent despite a change in value. If the value was 0, every value change would be sent immediately). [0 - 255] (0 - 12.75s)	Seconds [s]	R/W
Report Time	Report time (Cycle time after which an event is sent, even if the input signal has not changed) [0 - 255] (0 - 255s)	Seconds [s]	R/W
Hysteresis Min	Minimum hysteresis (For changes in brightness below this value, transmission of the "Illuminance" event is suppressed. This is independent of the set hysteresis). [0 - 255] (0 - 255)		R/W
Hysteresis	Hysteresis, from which value change a brightness event is sent. [0 - 25] (0 - 25)	Percent [%]	R/W

Table 49:"Light Sensor (IT4)" Tab



4.1.4.29 "Button (DT1)" Tab



You have access to the following parameters in the table on the "**Button (DT1)**" tab:

Table 50: "Button (DT1)" Tab

Name	Description	Read/Write
Sensor Active	Sensor active	R/W
Short Press	Short button press	R/W
Long Press	Long button press	R/W
Double Press	Double button press	R/W
Switch	Switch	R/W

4.1.4.30 "Presence Detector (DT2)" Tab



You have access to the following parameters in the table on the "**Presence Detector (DT2)**" tab:

Table 51: "Presence Detector (DT2)" Tab

Name	Description	Unit	Read/Write
Sensor Active	Sensor active		R/W
Repetition Time	Repetition time	Seconds [s]	R/W



4.1.4.31 "Light Sensor (DT3)" Tabs



You have access to the following parameters in the table on the "Light Sensor (DT3)" tab:

Table 52: "Light Sensor (DT3)" Tab – Sensor Type 1

Name	Description	Unit	Read/Write
Sensor Active	Sensor active		R/W
Send On Delta	Send on change in value: Send on change in the brightness value.	Percent [%]	R/W
Min Send Time	Minimum time until updating the brightness value.	Seconds [s]	R/W
Max Send Time	Maximum time until updating the brightness value.	Seconds [s]	R/W

Table 53: "Light Sensor (DT3)" Tab – Sensor Type 2

Name	Description	Unit	Read/Write
Send On Delta	Send on change in value: Send on change in the brightness value.	Percent [%]	R/W
Min Send Time	Minimum time until updating the brightness value.	Seconds [s]	R/W
Max Send Time	Maximum time until updating the brightness value.	Seconds [s]	R/W

4.1.4.32 "MSensor (Common)" Tab



You have access to the following parameters in the table on the "**MSensor** (Common)" tab:

Table 54: "MSensor (Common)" Tab

Name	Description	Read/Write
Sensor Active	Sensor active	R/W



4.1.4.33 "Presence Detector (DT4)" Tab



You have access to the following parameters in the table on the "**Presence Detector (DT4)**" tab:

DALI

Name	Description	Unit	Read/Write
Sensor Active	Sensor active		R/W
Repetition Time	Repetition time	Seconds [s]	R/W

4.1.4.34 "Button (Common)" Tab

۲--۲

You can view the following parameters in the table on the "**Button (Common)**" tab:

Table 55: "Button (Common)" Tab

Name	Description	Read/Write
Sensor Active	Sensor active	R/W

4.1.4.35 "Button (FT50)" Tab



You have access to the following parameters in the table on the "**Button (FT50)**" tab:

Table 56: "Button (FT50)" Tab

Name	Description	Read/Write
Switch	Is put into operation as a switch	R/W
On Short Press	Short button press on	R/W
Off Short Press	Short button press off	R/W
On Long Press	Long button press on	R/W
Off Long Press	Long button press off	R/W
Double Press	Double button press	R/W
Switch Closed	Switch closed	R/W
Switch Opened	Switch opened	R/W



4.2 "MODULE SETTINGS" Tab

🛒 🗅 📂 🗔 😡	Test.wdc2s - WAGO DALI Configurator		
FILE START MODULE SETTINGS DIAGNOS Disconnect Settings Read Write Connection Actions	TICS		0
 Invew Line Ground Floor Room 1 FO Room 2 FO Room 3 FO Ist Floor Room 1 F1 Room 2 F1 Room 1 F2 Room 1 F2 Room 1 F3 New Control Gear (ECG) (Adr: 0) Multi-Master 1 DALL Multi-Master 2 	Easy Mode	General ✓ Enable Gear Polling Device Polling Interval [s] Query new Gears after ✓ Network Query after Power Up ✓ Enable Internal Oata bus watchdog System failure level after Behavior after Short Circuit Transmission Repetitions in Case of Collision Firmware Version Hardware Version	1.0 Cycles
Ready			192.168.1.73

Figure 27: View of the "MODULE SETTINGS" Tab

The view of the configuration of the I/O module is found on the "**MODULE SETTINGS**" tab. You can configure general settings for the DALI Multi-Master Module (753-647) here.

The view is divided into the following four areas:

- Easy Mode
- Full Mode
- General
- Version

You can press the **[Read]** button on the ribbon to display the settings of the current DALI Multi-Master Module.

You can also make changes to the settings and then write the changes to the DALI Multi-Master Module by clicking the **[Write]** button on the ribbon.



Table 57: Buttons of the "MODULE SETTINGS" Tab							
Button	Label	Description					
	Connection						
₽	[Connect]	(Only visible if not connected)					
		Master Module.					
₽	[Disconnect]	(Only visible if connected) Disables the connection to the DALI Multi-Master Module.					
*	[Settings]	Click this button to open the "Communication Settings" dialog; see section "START Tab" > > "Communication Settings."					
		Actions					
	[Read]	Use this button to read out the settings of the DALI Multi-Master Module.					
	[Write]	Use this button to write the settings made on this tab to the DALI Multi-Master Module.					



4.2.1 Configuration Settings Overview

4.2.1.1 "Easy Mode"

"Easy mode" provides lighting control using simply binary signals without complicated PLC programming.

Function	Ex. Value	Description
2-button mode	$\checkmark^{*)}$	2-button mode enabled
		1-button mode enabled
Latching relay function	\checkmark	Latching relay function enabled (dimming is blocked)
	□*)	Latching relay function disabled
Switch on at last dimming value	✓ [*])	Save the last dimming value when switching off as the starting value for switching on
		Switch on at fixed dimming value (default 229 corresponds to 50.7 %)
Maximum Time for Short Button Press [s]	0.50 [s]	Time up to which a button press is recognized as a short button signal
Dimming Value When Switching ON [%]	50.5	Setting at what brightness value should be switched on.

	FO.		- 4 4 1	" Г оох		Califia		Cattingers
i abie	581	Overview	or me	Fasv	mode	Coniia	uraiion	Sellinds
	•••							

*) Default



4.2.1.2 "Full Mode"

In "Full mode," the I/O module can query and control the status of the attached devices in the DALI line by systematic polling.

Function	Ex. Value	Description
Flash Period for Device Identification [s]	1.0 [s]	Flashing period for locating the devices
Store Network Image	√ *)	Store network settings every 24 hours from RAM to EEPROM enabled
		Store network settings every 24 hours from RAM to EEPROM disabled
Automatic Replace	✓ [*])	Automatic replacement of replacement devices enabled
		Automatic replacement of replacement devices disabled

Table 59: Overview of the "Full Mod	le" Configuration Settings

*) Default



4.2.1.3 General Settings

Table 60: Overview of the "General" Configuration Settings

Function	Ex. Value	Description
Enable Cyclic Gear	✓ [*])	Gear polling enabled
Polling		Gear polling disabled Note: Deactivation can lead to inconsistency in the internal module database.
Gear polling interval [s]	1.0 [s]	Interval for gear polling (1 × sec.)
Query new gears after … cycles	4	Number of query cycles after which the network must be queried for new control gears (x y cycles)
Network Query after	✓ [*])	Network query after restart enabled
Power On		Network query after restart disabled
Enable Internal Power	✓ [*])	Internal power supply enabled
Supply		Internal power supply disabled
Enable Local Bus		Local bus watchdog enabled
Watchdog	□*)	Local bus watchdog disabled
Trigger System Failure Level after	1	Number of minutes after which the "System Failure Level" (lamp output in the event of system failure) is triggered. The value can lie between 1 and 255 minutes. The analysis is performed if the local bus watchdog is enabled. Info: Only supported by firmware version > 4
Behavior after Short Circuit	Behavior end of a	of the DALI Multi-Master Module after the short circuit:
	No action	DALI Multi-Master Module performs no separate action.
	Central Off [*]	If the short circuit lasted between 3 s and 7 s, the DALI Multi-Master Module switches off all ECGs (see also "Construction Site Function").
	Last dim- ming value	All lights are set to the dimming value that existed before occurrence of the short circuit. Info: Only enabled in firmware versions > 4



Table 60: Overview of the "General" Configuration Settings							
Function	Ex.	Description					
	Value						
Transmission Repetitions in Case of Collision	3	Number of transmissions/repetitions in case of error Info: Function is supported up to firmware version 19					

*) Default

Table 61: Overview of Configuration Settings Information

Information		
Firmware Version	03	Displays the firmware version of the selected DALI Multi-Master Module.
Hardware Version	01	Displays the hardware version of the selected DALI Multi-Master Module.

Use the "Enable Internal Power Supply" function to disable the internal DALI power supply in the DALI Multi-Master Module (753-647) in order to connect an external DALI power supply.

NOTICE

Destruction of DALI subscribers due to misuse of the WAGO power supply (787-1007)

Please note that the power supply from WAGO (item no.: 787-1007) must <u>only</u> be connected to the DALI Multi-Master Module. Power for the DALI bus is supplied indirectly via the DALI Multi-Master Module.

A direct connection to the DALI bus can result in the destruction of the attached DALI subscribers. Therefore, never connect the WAGO power supply (787-1007) to a DALI network directly without a DALI Multi-Master Module connected between the power supply and the network.

In the "General" area of the configuration settings, you can determine the control of device polling (bus scan) and the behavior in the event of faulty telegrams.



4.2.2 Use "Construction Site Function"

Use of the "**Behavior after Short Circuit**" function can also be helpful before initial startup, e.g., to switch off the lighting at a construction site overnight:

- 1. Make sure that the "Central Off" function is selected (default setting) in the "**Behavior after Short Circuit**" selection box.
- 2. Connect a button between the two DALI bus lines to short circuit the DALI bus.
- Make sure that the "Lamp Output on System Failure" (System failure level) for the ECGs lies between 1 and 254 (default setting: 254, i.e., 100 %).
- 4. Perform a short circuit within a time window of 3 ... 7 seconds.

The "OFF" command is sent as a broadcast and all ECGs and lights are switched off simultaneously.



4.3 "DIAGNOSTICS" Tab

		*Test.	wdc2s - WAGO DALI Configurato	r										×
FILE START MODULE SETTINGS DIAGNOSTICS	s													
Connect Settings Central Oft Central Oft<														
A Internet A	16	Name	Path	Address	NA	ON	DF	LF	LE	DA	AM	Value	Operating Hours	T
4 🐼 Ground Floor		New Control Gear (ECG)	New Line\Ground Floor\Room 1	0								0.0 %		1
4 🐼 Room 1 F0		New Control Gear (ECG) (1)	New Line\Ground Floor\Room 1	1								0.0 %		
New Control Gear (ECG) (Adr: 0) 📰		New Control Gear (ECG) (2)	New Line\Ground Floor\Room 3	2								0.0 %		1
Sensor Type 1		New Control Gear (ECG) (3)	New Line\	3								0.0 %		
New Control Gear (ECG) (1) (Adr: 1)		New Control Gear (ECG) (4)	New Line\	4								0.0 %		:
4 Sencer Type 1 (3)	ŀ		New Line\Ground Floor\Room 1											
Light Sensor (Adr: -)	H	Sensor Type 1 - Push Button 2	New Line\Ground Floor\Room 1											
Presence Detector (Adr: -)	F	Sensor Type 1 - Push Button 3	New Line\Ground Floor\Room 1											1
4 🐼 Room 3 F0	F		New Line\Ground Floor\Room 1											L
Sensor Type 1 (1)	F	Sensor Type 1 (1) - Push Button 1	New Line\Ground Floor\Room 3											
New Control Gear (ECG) (2) (Adr: 2)	H	Sensor Type 1 (1) - Push Button 2	New Line\Ground Floor\Room 3											
4 🐼 1st Floor	F	Sensor Type 1 (1) - Push Button 3	New Line\Ground Floor\Room 3											
S	Ľ	Sensor Type 1 (1) - Push Button 4	New Line\Ground Floor\Room 3											
DALI Multi-Master 1		NA: Not Available DF: Device Failure	LE: Limit Error	Al	4: Sen	sor in A	Active I	Mode						
DALI Multi-Master 2	•	ON: Lamp is On LF: Lamp Failure	DA: Double Address / Undefined	Answer										
eady													192.:	68

Figure 28: View of the "DIAGNOSTICS" Tab

The diagnostic view of the DALI Multi-Master Module (753-647) is found on the "**DIAGNOSTICS**" tab.

Table 62: Buttons of the "DIAGNOSTICS" Tab - Conn	ection
---	--------

Button	Label	Description					
Connection							
4₽	[Connect]	(Only visible if not connected) Establishes the connection to the DALI Multi- Master Module.					
	[Disconnect]	(Only visible if connected) Disables the connection to the DALI Multi-Master Module.					
*	[Settings]	Click this button to open the "Communication Settings" dialog; see section "START Tab" > > "Communication Settings."					



Table 63: Buttons of the "DIAGNOSTICS" Tab – Actions

Button	Label	Description					
	Actions						
	[Central On]	Click this button to switch on all lights connected to the DALI line.					
Ţ	[Central Off]	Click this button to switch off all lights connected to the DALI line.					
S	[Status Query]	Click this button to update the diagnostic information, operating values and operating hours.					
a,	[Status Report]	Click this button to create a diagnostic report that you can open later, e.g., as an Excel file. The content of the diagnostics report is a snapshot of the current status of all connected DALI subscribers. The " Save As " dialog appears. Enter the desired storage location and file name of the CSV file and click the [Save] button to confirm.					
C h 000	[Reset Operating Hours]	Click this button to reset the operating hours of the selected devices to the value "0."					
□*) / ☑	[Enable "Set Operating Hours"]	Check this checkbox to allow editing of table cells for writing the operating hours. (This function is only available with firmware versions 4 and above, so the checkbox is grayed out in firmware versions < 4!)					

*) Default



Note

Operating hours are written to the internal database of the I/O module, not to the ECG

The set operating hours are written to the internal database of the DALI Multi-Master Module (753-647), not to the respective ECG itself.



In addition to the columns with the icon, name, path, address, value and operating hours, the table in the configuration area also contains the following columns in which the status of a device is indicated in the respective table row:

- NA: Not available
- ON: Light is **on**
- DF: Device fault
- LD: Lights defective
- LE: Limit error
- DA: Duplicate address detected/undefined response
- AM: Sensor in **a**ctive **m**ode

Any errors are indicated by a red exclamation mark:





Note

Move table columns

If the later columns (Value, Operating Hours) of the table in the configuration area are not visible because the screen is too small, it makes sense to collapse the earlier table columns (Name, Path).

Status	Explanation	Remedy
NA	Device not available	Check the device, connection and addressing. If required, re-address the device (see section "START Tab" > > "Addressing").
ON	The lamp is switched on	
DF	Device fault or device failure	Check the failed device. Replace the device if defective. If necessary, use the Replace function to transfer data (topology tree context menu, menu item " Restore Device " – see section "START Tab" > > "Tree Structure").
LD	Lamp is defective	Replace the defective lamp.
LE	Underrun or overrun of the limiting value	Check the limiting value settings for the respective device in the configuration (see section "START Tab" > > "Configuration").
DA	Duplicate address detected or Undefined response	To remove a duplicate address, switch to the Addressing view on the "START" tab. Delete the address of the respective device from the table cell. Then re-address the device (see section "START Tab" > > "Addressing").
AM	Sensor is in active mode and is transmitting data	

Table 64: Meaning of the Status Indication in the Diagnostic Table



4.3.1 Update Diagnostic Information

F

In the tree structure on the left side, choose the DALI Multi-Master Module (753-647) for which you want to display the list of all connected devices. Multiple selection is possible.

- 1. Select the desired DALI Multi-Master Module (753-647) by clicking it.
- 2. Click the **[Status Query]** button on the ribbon.

All attached devices are listed with their associated statuses in the table on the right side for the DALI Multi-Master Module (753-647) currently selected.

	Name	Path	Address	NA	ON	DF	LF	LE	DA	AM	Value
:•:	ECG1	New Line\Room 1\	0		0						10,1 %
:	ECG2	New Line\Room 1\	1		0						10,1 %
:	ECG3	New Line\Room 1\	2		0						10,1 %
:	ECG4	New Line\Room 1\	3		0						50,5 %
:	ECG5	New Line\Room 2\	4		0						87,2 %
:	ECG6	New Line\Room 2\	5		0						76,1 %
:	ECG7	New Line\Room 2\	6		0						66,4 %
:	ECG8	New Line\Room 2\	7		0						54,8 %
1x*	Multi Sensor Room 1 - Light Sensor	New Line \Room 1\Multi Sensor Room 1\	1							0	56,00 lx
* •	Multi Sensor Room 1 - Presence Detector	New Line\Room 1\Multi Sensor Room 1\	2							0	
•	Multi Sensor Room 1 - Remote Control	New Line \Room 1\Multi Sensor Room 1\	3							0	
*	Push Button Room 1	New Line\Room 1\	0								
NA	NA: Not Available DF: Device Failure LE: Limit Error AM: Sensor in Active Mode										

ON: Lamp is On LF: Lamp Failure DA: Double Address / Undefined Answer

Figure 29: View of the Configuration Area on the "DIAGNOSTICS" Tab

4.3.2 Generate Status Report

a,

You have the option of creating a diagnostic report of the connected DALI network devices as a CSV file:

- 1. Click the **[Status Report]** button on the ribbon. The "**Save As**" dialog appears.
- 2. Enter the desired storage location and file name for the CSV file.
- 3. Click **[Save]** to confirm the dialog.

The file created can now be opened, e.g. as an Excel table.



4.3.3 Light Operating Hours

Note

Move table columns

If the later columns (Value, Operating Hours) of the table in the configuration area are not visible because the screen is too small, it makes sense to collapse the earlier table columns (Name, Path).

4.3.3.1 Reset Operating Hours

C		h
۵	0	0

The operating hours counted in the last table column "Operating Hours" can be reset to "0."

- 1. Click to select the device whose operating hours you want to reset.
- 2. Click the [Reset Operating Hours] button on the ribbon.

4.3.3.2 Set Operating Hours



Note

Logging operating hours depends on firmware

You can only edit the table cells for DALI Multi-Master Modules with firmware version 4 or higher, and only if the function has been unlocked by checking the **"Set Operating Hours"** checkbox.

For I/O modules with a firmware version lower than 4, the function is disabled and the respective checkbox grayed out.



Note

A short address is required to write operating hours

To write operating hours, enter the desired value in the respective table cell of the "**DIAGNOSTICS**" tab. The respective device must have a short address. An error message appears otherwise.

For DALI Multi-Master Modules with firmware 4 or higher, you can write operating hours, e.g. for applications where an ECG is replaced, but the lighting continues to be used.

- 1. Make sure that the respective device has a short address.
- 2. Check the "Enable 'Set Operating Hours'" checkbox on the ribbon. This unlocks the table cells.
- 3. You can now edit the table cell entry.



4.4 Status Bar

Ready

192.168.0.91

Figure 30: Status Bar (Example)

Information on the status of the started action appears in the status bar at the bottom of the user interface.

Furthermore, messages on the following events are displayed on the DALI Multi-Master Module:

Table 65: Events on the DALI Multi-Master Module

Message	Description
"Error on DALI bus: No voltage or short	No power supply to the DALI bus, or
circuit."	short circuit on the DALI bus
"Communication error"	Communication error within the I/O
	module
"Interface is busy, please wait"	The I/O module cannot process queries
	from the configurator.
	This can happen if device polling is
	enabled when it is switched on and
	there is no power supply to the DALI
	bus.

The status of the connection to a DALI Multi-Master Module is represented on the right by an icon:

|--|

Symbol	Description
- C	The DALI Multi-Master Module is connected.
>	
4	There is no connection to a DALI Multi-Master Module.
0	

In addition, the current connection settings are displayed, i.e., the IP address or COM port of the connected fieldbus node if applicable.

If an action (e.g., Read, Write etc.) is called, a progress bar displays the progress of the action.

If an error occurs, it is indicated by an icon and given a text name.


4.5 "FILE" Tab

👷 I 🗅 📁 🖯 🐼		New Project - WAGO DALI Configurator	
FILE START N	NODULE SETTINGS DIA	GNOSTICS	0
E Save	Export		
New	Export to	CODESYS Device information (name, short adress) and group names are exported in a format that can be imported by CODESYS.	
Import Export	CODESYS	Export to CODESYS 2 V	
🔁 Egit	Save as PDF	PDF The project data is saved to a PDF file.	
	Save as CSV	CSV The Control Gears or Control Devices data (e.g. name, short address, instance number, event filter) for the currently selected module is saved to a CSV file. Control Gears	

Figure 31: View of the "FILE" Tab

For some buttons, there is a Backstage view on the "**FILE**" tab, as is familiar from MS Office and other software.

With the buttons listed here, you have the option to:

- Save a project
- Save the project under a different name
- Open an existing project
- Create a new project or a new solution folder
- Import project data (XML or CSV)
- Export device information to a format importable by CODESYS
- Export device information to a format importable by elCOCKPIT
- Save the project data to a PDF file
- Export the project data to a CSV file
- Open the user manual as a PDF
- Display WAGO contact information, or
- Close the program



Table 67: Buttons of the "FILE" Tab			
Button	Label	Description	
	[Save]	The configuration of the current project is saved as a project folder. File format: "wdc2s" ("WAGO DALI Configurator 2 Solution"). Note: For a new project, select the desired storage location in your directory structure, assign a file name and click [Save] to confirm.	
	[Save As]	Select the desired storage location in your directory structure and the desired file name for the .wdc2s file of the current project. Click [Save] to confirm.	
	[Open]	Select the desired .wdc2s file in your directory structure and click [Open] to confirm.	
New		This button displays a Backstage view with other buttons for creating a new project or a new solution folder.	
New Project	[New Project]	Click this button to create a new empty project for the selected DALI Multi-Master Module. The project data of the other DALI Multi-Master Modules remains unchanged. After a new project is created, the program switches to the " START " tab.	
New Solution	[New Solution]	Click this button to create a new empty solution folder. A solution folder contains the project data of all DALI Multi-Master Modules. After a new solution folder is created, the program switches to the " START " tab.	
Import		This button displays a Backstage view with other buttons for importing old project files (XML format) or project data (CSV format) of the selected DALI Multi-Master Module.	
Old Project File	[Old Project File]	Click this button to open an old project file (from WAGO DALI Configurator version 1). The project data for the selected DALI Multi-Master Module is replaced by this project.	
Import CSV File	[Import CSV File]	Click this button to import control gears (ECGs) and control devices (sensors) from a CSV file and add them to the project data of the selected DALI Multi-Master Module.	



Table 67: Buttons of the "FILE" Tab			
Button	Label	Description	
Export		This button displays a Backstage view with other buttons for exporting your project data.	
Export to CODESYS	[Export to CODESYS]	Click this button to export device information (name, short address) and the group name of all connected DALI Multi-Master Modules in a format that can be imported by CODESYS or <i>e!COCKPIT</i> . Use the selection box to choose between "Export to CODESYS 2" (default) and "Export to <i>e!COCKPIT</i> ."	
Save as PDF	[Save As PDF]	Click this button to create the project documentation for your project or your project folder as a PDF file. Use the selection box to choose between "All" (default) and "Selected I/O Module."	
Save as CSV	[Save As CSV]	Click this button to export the project data for control gears (ECGs) and control devices (sensors) of the currently selected DALI Multi- Master Module (e.g., name, short address, groups, instance number and event filter) to a CSV file. Use the selection box to choose between "Control Gears" (default) and "Control Devices."	
Help		This button displays a Backstage view with the WAGO contact address and contact information for WAGO Support. In addition, you can also open the software manual from a button.	
¢.	[Exit]	Terminates execution of the program and closes the window.	



4.5.1 Generate Project Documentation: "WAGO DALI Configurator Report"

The **[Save As PDF]** button is available to you in the Backstage view of the **[Export]** button.

Click this button to create a report for your project or project folder in the form of a PDF file.

In addition to the project name and creation date, it lists the comprehensive device overview with group association, scene values and device settings.

Furthermore, a checklist for installation and startup is generated in which the project manager is named and comments can be entered. The customer, electrician and lighting designer can countersign the report (see figure "Report, Checklist").

Checklist	
Project Name:	New Project
Project Manager:	
Date created:	27.09.2016 17:25:07
Comment:	
Installation	
	[] All lamps are installed and ready.
	[] All sensors are installed and ready.
Commissioning	
	[] All lamps are operating.
	[] All lamps are configured.
	[] All sensors are operating.
	[] All sensors are configured.
Notes	
Customer (Date, Signature)	
Electrician	
(Date, Signature)	
Customer (Date, Signature) Electrician	

Figure 32: Report, Checklist

- 1. Click the **[Export]** button. The associated Backstage view is shown.
- In the PDF area, specify whether the report for the current project ("Selected I/O module") or the entire project folder with all attached DALI Multi-Master Modules ("All") should be created.
- 3. Click the [Save As PDF] button. The "Save Report" dialog appears.
- 4. Enter the desired storage location and file name of the PDF file and click the **[Save]** button to confirm. The PDF is generated.



5 Startup – Example Configuration

5.1 Establish Connection

- 1. Launch the WAGO DALI Configurator. You are at the beginning on the "**START**" tab.
- 2. Click the [Settings] button on the ribbon. The "Communication Settings" dialog appears.
- 3. Select the **Connection** ("Ethernet (TCP/IP)" or "Serial").
- 4. Enter the **IP Address** or select the **Port**.
- 5. Select the appropriate **DALI Module position**.
- 6. Confirm your entries by clicking **[OK]**.
- 7. Click the [▶ ◀ **Connect**] button on the ribbon.

5.2 Address Control Gears (ECG)

- 1. Make sure that the [Addressing] button on the ribbon is active and that you are on the " Control Gears" tab.
- 2. If necessary, clear the **Only Unaddressed Devices** checkbox on the ribbon.
- 3. Select the "Random Addressing" entry in the ribbon selection box.
- 4. Click the [^{®,•} **Start]** button on the ribbon. A dialog appears with the questions "Would you like to start addressing with the following settings?"
- 5. Click **[Yes]** to confirm the dialog. The control gears found are listed.
- 6. Click the [⁷⁵ Locate Start] button on the ribbon.
- 7. Double-click the first table cell and rename the control gear as required. Press the **[Return]** key on your keyboard to confirm your entry. The next table cell is selected for editing.
- 8. Also rename the other control gears.
- 9. Click the [**Locate Stop**] button on the ribbon to stop the process.



5.3 Create Room Structure

- 1. Right-click the **New Line** tree structure.
- 2. Select the **Add new section** menu item in the context menu.
- 3. Right-click the new **New Section** entry.
- 4. Select the **Rename** menu item in the context menu.
- 5. Enter a suitable name, e.g., "Room 1".
- 6. Repeat steps 1 to 5 until you have created the required number of areas.
- 7. Distribute the control gears to the areas as required by dragging & dropping each control gear to the respective area.

5.4 Assigning Lighting Groups

- 1. Click the [Groups & Scenes] button on the ribbon.
- 2. Drag a required section from the room structure to a group of the group tree in the configuration area.
- 3. Right-click the respective group.
- 4. Select the **Rename** menu item in the context menu.
- 5. Enter a suitable name, e.g., "Group room 1".
- 6. Do the same with the remaining areas.

5.5 Assigning a Light Scene

- 1. Drag a required group from the list of "**Groups**" to a scene of the scene tree. The "**Set Values**" dialog appears.
- 2. Enter a value for the level setting (%).
- 3. Select the **Send when changed** checkbox.
- 4. Confirm your entries by clicking **[OK]**.
- 5. Expand the edited scene by clicking the arrow next to the scene. The same dimming value is specified for all control gears in the scene.
- To edit the level setting of individual control gears, right-click the control gear and select **Configure Scene** menu item in the context menu. The "**Set Values**" dialog opens, but this time for the currently selected control gear only.



- 7. Change the dimming value of the individual control gear as required.
- 8. Right-click the scene and select the **Rename** menu item in the context menu to rename the scene, e.g. to "Projector" or "Presentation".

5.6 Configuring Control Gears (ECG)

- 1. Click the **[** Configuration] button on the ribbon.
- First make sure that the required section is selected in the tree structure.
 Edit the table entries in the "Control Gear (Common)" tab.
- 3. Click the [Write] button in the ribbon to apply the changes made to the DALI Multi-Master Module.

5.7 Addressing and Assigning Sensors

- 1. Click the [\bigcirc Addressing] button on the ribbon.
- Select the respective tab, e.g. "Sensors", "Sensor Type 1" or "Sensor Type 2".
- 3. Click the [^{a,f} Start] button on the ribbon. A dialog appears with the questions "Would you like to start addressing with the following settings?"
- 4. Click **[Yes]** to confirm the dialog. The sensors found are listed.
- 5. Double-click in the first table row and name the sensor as required.
- 6. You can also rename the remaining sensors.
- 7. Click the [Content Start] button on the ribbon.
- 8. Click the [**Locate Stop**] button on the ribbon to stop the process.
- 9. The sensors are also listed in the tree structure. Distribute the sensors in the areas as required.



5.8 Configuring Sensors

- 1. Click the **[** Configuration] button on the ribbon.
- 2. First make sure that the required sensor is selected in the tree structure. Edit the table entries under the corresponding tabs.
- 3. Click the **[** Write] button in the ribbon to apply the changes made to the DALI Multi-Master Module.

5.9 Querying the Control Gear Status

- 1. Go to the "**DIAGNOSTICS**" tab.
- 2. Click the [Query Status] button on the ribbon. All attached control gears with their respective status are listed for the DALI Multi-Master Module currently selected in the table on the right side.
- To create a snapshot of the current status as a CSV file, click the [Status Report] button on the ribbon. The "Save as" dialog appears.
- 4. Enter the required storage location and file name for the CSV file.
- 5. Click **[Save]** to confirm the dialog.

The file created can now be opened externally, e.g. as an Excel table.

5.10 Generating Project Documentation

- 1. Go to the "**FILE**" tab.
- 2. Click the [**Export**] button. The related Backstage view is shown.
- 3. In the PDF area, select if the report for the current project ("Selected Module") or the entire project folder with all attached DALI Multi-Master Modules ("All") should be created.
- 4. Click the **[Save as PDF]** button. The **"Save report**" dialog appears.
- 5. Enter the required storage location and file name of the PDF file and click the **[Save]** button to confirm. The PDF is generated.



5.11 Setting Cyclic Control Gear Query and Saving the Project

- 1. Go to the "**MODULE SETTINGS**" tab.
- 2. Select the **Enable Gear Polling** checkbox.
- 3. Change the value in the **Device Polling Interval [s]** input field as required.
- 4. Click the **[** Write] button on the ribbon.
- 5. Click the icon 🗔 in the quick access toolbar to save the configuration. The "**Save configuration**" dialog appears.
- 6. Enter a file name and click **[Save]** to confirm your entry.



6 Glossary

Α

Auto-Replace Function

In the event that exactly one device is defective and is replaced by an unaddressed device, the "Replace" function automatically assigns the old short address of the previous device to the new device and subsequently restores the settings for the device using the data stored in the I/O module database.

С

Control Gear

Control gears are found in DALI networks as one or more components between the power supply and one or more lamps. They are used to supply power to the lighting and for their DALI communication. The control gears provide the switch-on voltage and warm-up current for the lamps to prevent a cold start, thus enhancing the power factor and reducing electromagnetic interference.

→ See "ECG."

Control Device

"Control Device" is the IEC designation for the device and includes both the DALI (Multi)-Master Module and the active sensors.

D

DALI (Digital Addressable Lighting Interface)

"DALI" is a protocol for control of lighting control gears in building automation, such as power supplies ("electronic transformers"), electronic control gears (ECGs) and electronic dimmers.

The individual specifications are described in the IEC 62386 series of standards.

→ See also: "IEC 62386."

DALI-2 (Digital Addressable Lighting Interface Edition 2)

DALI-2 is a further development of the IEC 62386 series of standards that adapts the structure of the individual parts of the standards, distinguishes between the electrical and functional requirements on the control gears and sets the requirements on the sensors in order to achieve a higher level of interoperability for backwards compatibility with existing DALI installations.

DALI Short Address

Each device with a DALI interface is addressed in the network using a DALI short address. For some multifunction devices, such as the multi-sensors, each individual function (brightness, presence, remote control) can be



assigned a dedicated DALI short address, enabling the function to be addressed individually.

Ε

Easy Mode

In "Easy" mode, attached DALI devices are represented in binary form with two bits each on the process image. These two bits correspond to the button functions (ON/OFF, DIMMING) and are implemented in the DALI Multi-Master Module (753-647). The status is queried in cycles. "Easy" mode is implemented via modules in the firmware.

→ See also "Full Mode."

ECG (Electronic Control Gear)

→ See "Control Gear."

F

Full Mode

In "Full" mode, switching commands are specified by a higher-order control system via a PLC application.

Transmission within the I/O module takes place via the module-internal mailbox. Querying of process data is acyclic.

"Full" mode is implemented by modules in WAGO-I/O-PRO.

→ See also "Easy Mode."

I

IEC 62386

"IEC 62386" ("Digitally addressable interface for lighting"; German version DIN EN 62386: "Digital adressierbare Schnittstelle für die Beleuchtung") is a series of standards that defines details specific to DALI. The series of standards is being revised by the IEC SC 34C subcommittee and contains the following parts (version of 2018):

- 101: System
- 102: Control gears
- 103: Control devices
- 201 to 224: Device types 0–23:
- 201: Device type 0: Fluorescent lamps
- 202: Device type 1: Emergency lighting with individual battery
- 203: Device type 2: Discharge lamps
- 204: Device type 3: Low-voltage halogen lamps,
- 205: Device type 4: Incandescent lamp dimmers
- 206: Device type 5: Conversion of the digital input signal to DC
- 207: Device type 6: LED modules
- 208: Device type 7: Switching function
- 209: Device type 8: Color control
- 210: Device type 9: Sequencers



- 216: Device type 15: Load referencing
- 217: Device type 16: Thermal gear protection
- 218: Device type 17: Dimming curve selection
- 220: Device type 19: Centrally-supplied emergency operation
- 221: Device type 20: Load shedding
- 222: Device type 21: Thermal lamp protection
- 224: Device type 23: Integrated light source
- 301 to 304: Input devices:
- 301: Push buttons
- 302: Absolute input devices
- 303: Occupancy sensors
- 304: Light sensors

Μ

Multi-Master

In a "multi-master," control of the intelligent measuring and automation devices on the fieldbus is performed locally, in contrast to a master/slave system.

The WAGO DALI Multi-Master Module (753-647) is a multi-master that supports the DALI interface and can utilize this interface together with other master devices.

R

Random Address

The "random address" (or "search address") is a 24-bit address generated by an ECG during initialization.

S

Single Master

In contrast to a multi-master, a "single master" does not support collision detection and is not suitable for connection at the same interface with other masters.

Settling Time

The "settling time" is the minimum time period between two frames.

V

Virtual Group

A DALI group is a logical combination of devices to which a common group address is assigned so that these devices execute a common function synchronously. These devices do not necessarily have to be physically linked (e.g., the group for all emergency lighting systems, all hallway lights etc.).

In case the 16 available group addresses (0 ... 15) are not sufficient



because further groups are required, an additional 16 virtual groups can be created (with group addresses 17 ... 31). These groups cannot, however, be addressed via a DALI group command, but only one after the other by individual commands from the DALI Multi-Master Module (753-647). A maximum of eight devices may be assigned to each virtual group in order not slow down or impede DALI data exchange on the bus.

List of Figures

Figure 1: Launching the WAGO DALI Configurator from WAGO-I/O-CHECK	16
Figure 2: Launching the WAGO DALI Configurator by Clicking the .exe File	16
Figure 3: User Interface	18
Figure 4: View of the "START" Tab	19
Figure 5: "Communication Settings" Dialog	23
Figure 6: "Addressing" View, "Control Gears" Tab (Example)	24
Figure 7: Tabs in the "Addressing" View	24
Figure 8: "Add Devices" Dialog	28
Figure 9: Edit Table Cells	29
Figure 10: DALI Multi-Master Module as Sensor	32
Figure 11: "Add Sensors" Dialog, Selection List	33
Figure 12: Listed Instances	34
Figure 13: Select Number of Sensors	34
Figure 14: Table of Sensors	35
Figure 15: Moving Devices with the Context Menu	45
Figure 16: "Activation Value" Dialog	47
Figure 17: Setting up the Tree Structure	49
Figure 18: Tooltip – Displaying Assignments to Groups/Scenes	50
Figure 19: View of the "Groups & Scenes, Set Scene Value" Configuration	
Area (Example)	51
Figure 20: "Set Scene Value" Dialog (Example 1: Dimming Value)	53
Figure 21: "Set Scene Value" Dialog (Example 2: Color Value)	53
Figure 22: Tabs of the "Configuration" View (Example)	56
Figure 23: Change Color Settings – Color Value	65
Figure 24: Change Color Settings – Color Temperature	65
Figure 25: Write Memory Bank, Multiple Devices (Example)	80
Figure 26: Write Memory Bank, Single Device (Example)	81
Figure 27: View of the "MODULE SETTINGS" Tab	96
Figure 28: View of the "DIAGNOSTICS" Tab	.103
Figure 29: View of the Configuration Area on the "DIAGNOSTICS" Tab	.106
Figure 30: Status Bar (Example)	.108
Figure 31: View of the "FILE" Tab	.109
Figure 32: Report, Checklist	.112



List of Tables

Table 1: Number Notation	9
Table 2: Font Conventions	9
Table 3: Requirements PC Hardware	11
Table 4: Required PC Software	11
Table 5: Optional PC Software	11
Table 6: Required Hardware of the WAGO I/O SYSTEM	12
Table 7: Compatibility List, Version of November 2016	13
Table 8: Legend for Figure "User Interface"	18
Table 9: Buttons of the "START" Tab – Connection	19
Table 10: Buttons of the "START" Tab – View	20
Table 11: Buttons of the "START" Tab – DALI Network	20
Table 12: Buttons of the "START" Tab – Actions	21
Table 13: Buttons of the "START" Tab – Addressing	22
Table 14: List of Available DALI Network Devices	26
Table 15: Context Menu of the "Control Gears" List	30
Table 16: Context Menu of the "Sensors" Table	36
Table 17: Context Menu of the "Sensor Type 1" List	40
Table 18: Context Menu for the "Sensor Type 2" List	43
Table 19: Context Menu for the Entries in the Tree Structure	46
Table 20: "Groups" Context Menu	52
Table 21: "Scene" Context Menu	54
Table 22: "Control Gears (ECG) (Common)" Tab	57
Table 23: "Fluorescent Light (DT0)" Tab	58
Table 24: "Emergency Lighting (DT1)" Tab	58
Table 25: "Discharge Lamp (DT2)" Tab	60
Table 26: "Low Voltage Halogen Lamp (DT3)" Tab	60
Table 27: "Filament Lamp (DT4)" Tab	61
Table 28: "Converting the Digital Signal into a DC Voltage (DT5)" Tab	61
Table 29: "LED Module (DT6)" Tab	62
Table 30: "Switching Function (DT7)" Tab	63
Table 31: "Color Control (DT8)" Tab	64
Table 32: "Load Referencing (DT15)" Tab	66
Table 33: "Thermal Gear Protection (DT16)" Tab	66
Table 34: "Dimming Curve Selection (DT17)" Tab	66
Table 35: "Centrally Supplied Emergency Operation (DT19)" Tab	67
Table 36: "Load Shedding (DT20)" Tab	68
Table 37: "Thermal Lamp Protection (DT21)" Tab	68
Table 38: "Non-Replaceable Light Source (DT23)" Tab	69
Table 39: "Integrated Bus Power Supply (DT49)" Tab	69
Table 40: "Memory Bank 1 Extension (DT50)" Tab	70
Table 41: Energy Reporting (DT51)" Tab	71
Table 42: "Diagnostics and Maintenance (DT52)" Tab	73
Table 43: "Sensor (Common)" Tab	81
Table 44: "Universal Input (IT0)" Tab	83
Table 45: Event Addressing Scheme	84
Table 46: "Button (IT1)" Tab	84
Table 47: "Absolute Input (IT2)" Tab	87



Table 48: "Presence Detector (IT3)" Tab	89
Table 49:"Light Sensor (IT4)" Tab	91
Table 50: "Button (DT1)" Tab	93
Table 51: "Presence Detector (DT2)" Tab	93
Table 52: "Light Sensor (DT3)" Tab – Sensor Type 1	94
Table 53: "Light Sensor (DT3)" Tab – Sensor Type 2	94
Table 54: "MSensor (Common)" Tab	94
Table 55: "Button (Common)" Tab	95
Table 56: "Button (FT50)" Tab	95
Table 57: Buttons of the "MODULE SETTINGS" Tab	97
Table 58: Overview of the "Easy mode" Configuration Settings	98
Table 59: Overview of the "Full Mode" Configuration Settings	99
Table 60: Overview of the "General" Configuration Settings	100
Table 61: Overview of Configuration Settings Information	101
Table 62: Buttons of the "DIAGNOSTICS" Tab – Connection	103
Table 63: Buttons of the "DIAGNOSTICS" Tab – Actions	104
Table 64: Meaning of the Status Indication in the Diagnostic Table	105
Table 65: Events on the DALI Multi-Master Module	108
Table 66: Status of Connection to the DALI Multi-Master Module	108
Table 67: Buttons of the "FILE" Tab	110









 WAGO Kontakttechnik GmbH & Co. KG

 Postfach 2880
 •
 D - 32385 Minden

 Hansastraße 27
 •
 D - 32423 Minden

 Phone:
 +49 571 887 – 0

 Fax:
 +49 571 887 – 844169

 E-Mail:
 info@wago.com

 Internet:
 www.wago.com