

# RESI.LIGHT.PRODUCTS

## Overview about our DALI and DMX product portfolio



### DALI:

- NEW** Automatic search for new DALI lamps and assignment of DALI short addresses
- NEW** Complete configuration of a DALI lamp (Fade rate, groups, scenes, etc.)
- NEW** Extensive functions for fast changing and testing of lamps with DALI short addresses
- NEW** Special functions for assigning and testing of DALI groups
- NEW** Complete set of DALI functions for testing a DALI installation
- NEW** Extensive online help for each function in our software in the internet

### DMX:

- NEW** Test function for all 512 DMX registers in a DMX universe
- NEW** Size of DMX frame is adjustable between 1 and 512 DMX bytes

### LED stripes:

- NEW** Direct control of LED stripes with dimmable PWM channels (for RGB, Dual white, mono color LED stripes)
- NEW** 2 types RESI-1LED-xxx: 3 PWM channels RESI-4LED-xxx: 12 PWM channels

### Light actuator:

- NEW** 8 bistable relays for light applications (max. 250Vac, 16A, 200µF)
- NEW** 16 digital inputs for 12-48Vdc signals (e.g. push buttons)
- NEW** Internal logic for controlling the relays with the digital inputs (stand alone mode)

### FREE CONFIGURATION SOFTWARE

You can download the free MODBUSConfigurator software from our homepage [www.RESI.cc](http://www.RESI.cc). If you have installed our tool, it will be updated via Internet automatically.

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# RESI.LIGHT.PRODUCTS

## Overview of our DALI and DMX gateways

### HOST SYSTEMS



# RESI.LIGHT.PRODUCTS

## Overview of our PWM output modules for LED stripes

### HOST SYSTEMS



19" Server systems

PC Workstations

PLCs

DDCs

Industrial computer

### MODBUS RTU

RS232  
RS485



RESI-1LED-MODBUS



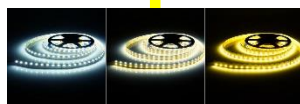
3xPWM  
1 group  
LED stripes  
max. 48Vdc  
max. 5A/channel

### MODBUS RTU ASCII

RS232  
RS485



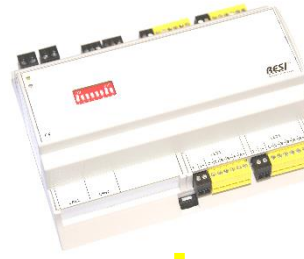
RESI-1LED-ASCII



3xPWM  
1 group  
LED stripes  
max. 48Vdc  
max. 5A/channel

### MODBUS RTU

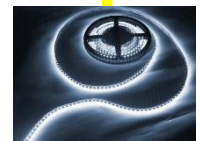
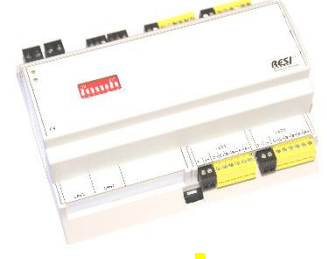
RESI-4LED-MODBUS  
RS485



12xPWM  
4 groups  
LED stripes  
max. 48Vdc  
max. 5A/channel

### MODBUS RTU ASCII

RESI-4LED-ASCII  
RS485



12xPWM  
4 groups  
LED stripes  
max. 48Vdc  
max. 5A/channel

# RESI.LIGHT.PRODUCTS

Overview of our actuators especially for light switching

## HOST SYSTEMS



19" Server systems

PC Workstations

PLCs

DDCs

Industrial computer

### MODBUS RTU

RS485

RESI-16DI8RO-MODBUS



#### Output power per channel:

Incandescent lamp	4,800 W
Fluorescent lamp, not compensated	5,000 W
Fluorescent lamp, parallel compensated	2,500 W / 200 µF
Fluorescent lamp, duo-combination	2 x 5,000 W
Halogen lamp (230 VAC)	5,000 W
Low voltage halogen lamp with transformer	2,000 VA
Mercury arc	
sodium discharge lamp not compensated	5,000 W
Mercury arc	
sodium discharge lamp parallel compensated	5,000 W / 200 µF
Dulux lamp, not compensated	4,000 W
Dulux lamp, parallel compensated	3,000 W / 200 µF

### MODBUS RTU ASCII

RS485

RESI-16DI8RO-ASCII



16 digital inputs 12..48Vdc  
8 bistable relay outputs  
manual mode  
max 250Vac  
max 16A  
max 200µF



16 digital inputs 12..48Vdc  
8 bistable relay outputs  
manual mode  
max 250Vac  
max 16A  
max 200µF

# RESI.LIGHT.PRODUCTS

## Overview about our DALI and DMX product portfolio

The screenshot displays the RESI's MODBUS Configurator V1.0.5.19 interface. The main window is titled "RESI's MODBUS Configurator V1.0.5.19 - [C:\MBCConfigurator 2014\EFWH Portugal DALI Konfiguration.mcp]". It features a "Project manager" on the left with a tree view showing a "New Project" named "RESI-DALI-MODBUS - [RESI-DALI-MODBUS]" containing 12 "Keller" (Keller #1 to Keller #12) and 7 "Wintergarten" (Wintergarten #1 to Wintergarten #8) sub-projects. The main area is titled "Dali lamp settings" and includes tabs for "Read lamp settings", "Write lamp settings", "Switch MAX", "Switch MIN", and "Switch OFF". The "Write lamp settings" tab is active, showing configuration for "Keller #1". Fields include "Lamp name" (Keller #1), "Short address" (0), "Physical minimum" (126), "Minimum value" (126), "Maximum value" (254), "Power up value" (254), "Bus fault value" (254), "Fade time [s]" (no fading), and "Fade rate [steps/s]" (44.725). A "Scene values" section contains 16 dropdown menus, all set to "deactivated". A "Groups" section has checkboxes for groups 0 through 15. Below the main window, two smaller windows are visible: "Reorder DALI Lamps" and "Initialise new Dali lamps".

**Reorder DALI Lamps** window:

Status: Pulsing short address 20 with 201

Buttons: Reorder lamp, Copy, Delete short address, Clear log, Reset used

Short Addresses			New Short Addresses		
<input type="radio"/> 0	<input type="radio"/> 16	<input type="radio"/> 32	<input type="radio"/> 0	<input type="radio"/> 16	<input type="radio"/> 32
<input type="radio"/> 1	<input type="radio"/> 17	<input type="radio"/> 33	<input type="radio"/> 1	<input type="radio"/> 17	<input type="radio"/> 33
<input type="radio"/> 2	<input type="radio"/> 18	<input type="radio"/> 34	<input type="radio"/> 2	<input type="radio"/> 18	<input type="radio"/> 34
<input type="radio"/> 3	<input type="radio"/> 19	<input type="radio"/> 35	<input type="radio"/> 3	<input type="radio"/> 19	<input type="radio"/> 35
<input type="radio"/> 4	<input type="radio"/> 20*	<input type="radio"/> 36	<input type="radio"/> 4	<input type="radio"/> 20*	<input type="radio"/> 36
<input type="radio"/> 5	<input type="radio"/> 21	<input type="radio"/> 37	<input type="radio"/> 5	<input type="radio"/> 21	<input type="radio"/> 37
<input type="radio"/> 6	<input type="radio"/> 22	<input type="radio"/> 38	<input type="radio"/> 6	<input type="radio"/> 22	<input type="radio"/> 38
<input type="radio"/> 7	<input type="radio"/> 23	<input type="radio"/> 39	<input type="radio"/> 7	<input type="radio"/> 23	<input type="radio"/> 39
<input type="radio"/> 8	<input type="radio"/> 24	<input type="radio"/> 40	<input type="radio"/> 8	<input type="radio"/> 24	<input type="radio"/> 40
<input type="radio"/> 9	<input type="radio"/> 25	<input type="radio"/> 41	<input type="radio"/> 9	<input type="radio"/> 25	<input type="radio"/> 41
<input type="radio"/> 10	<input type="radio"/> 26	<input type="radio"/> 42	<input type="radio"/> 10	<input type="radio"/> 26	<input type="radio"/> 42
<input type="radio"/> 11	<input type="radio"/> 27	<input type="radio"/> 43	<input type="radio"/> 11	<input type="radio"/> 27	<input type="radio"/> 43
<input type="radio"/> 12	<input type="radio"/> 28	<input type="radio"/> 44	<input type="radio"/> 12	<input type="radio"/> 28	<input type="radio"/> 44
<input type="radio"/> 13	<input type="radio"/> 29	<input type="radio"/> 45	<input type="radio"/> 13	<input type="radio"/> 29	<input type="radio"/> 45
<input type="radio"/> 14	<input type="radio"/> 30	<input type="radio"/> 46	<input type="radio"/> 14	<input type="radio"/> 30	<input type="radio"/> 46
<input type="radio"/> 15	<input type="radio"/> 31	<input type="radio"/> 47	<input type="radio"/> 15	<input type="radio"/> 31	<input type="radio"/> 47

Log: 1/25/2015 4:35:22 PM:Reorder short address 11 to short address 20

**Initialise new Dali lamps** window:

Initialisation mode:  Random address,  Physical selection

Initialise...:  all ballasts,  ballast with specific short address,  ballast(s) without short address

Auto names:  Auto names

Name for Lamps: Lamp

Switch off existing short addresses:  Switch off existing short addresses

Status: Enter a name for lamp 0... 0%

Select short address: 0, 1, 2, 3, 4

Lamp name: My Lamp 0

Buttons: Start, Stop, Continue, Clear log

The "Test bench" window has a "Destination" section with radio buttons for "single lamp" (0), "lamp group" (0), and "all lamps" (selected). An "Execute!" button is below. The "Function" section has radio buttons for "Set brightness to value 0", "Set brightness to value 128", "Set brightness to value 254" (selected), "Set brightness to value: 254" (with a text input field), and "Execute command: Switch off" (with a dropdown menu and "0x00" input field).

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## Overview about our DALI and DMX product portfolio

**Project manager**

New Project  
RESI-DMX-MODBUS - [RESI-DMX-MODBUS]

**Local Com-Port settings**

Modbus unit: 255 IP-Address:   
Device: COM4 Port:   
Baudrate: 57600 Parity: NONE

**Common**

Download config Test connection Test

Device name: RESI-DMX-MODBUS Device type: DMX512 to MODBUS/RTU module for up to 512 DMX lamps  
Software version: ??? State: ???

**Device specific**

DMX Start DMX Stop Set DMX Length Get DMX Length Read DMX Values Write DMX Values

Modbus address: 255 Modbus baudrate: 19200 DMX length: 512  
Modbus parity: NONE

**DMX universe**

New Value	Index	Value	Comment
	1	0,0x00	no comment
	2	0,0x00	no comment
	3	0,0x00	no comment
	4	0,0x00	no comment
	5	0,0x00	no comment
	6	0,0x00	no comment
	7	0,0x00	no comment
	8	0,0x00	no comment
	9	0,0x00	no comment
	10	0,0x00	no comment
	11	0,0x00	no comment
	12	0,0x00	no comment
	13	0,0x00	no comment
	14	0,0x00	no comment
	15	0,0x00	no comment

**Project manager**

New Project  
RESI-16DI8RO-ASCII - [RESI-16DI8RO-ASCII]

**Local COM port settings**

Modbus unit: 1 Device: COM8 IP-Address:   
Baudrate: 57600 Parity: NONE Port:

**Device specific**

Download config Test connection Test

RESI-16DI8RO-ASCII 16DI8RO to ASCII module with 16 DiS 12-48Vdc and 8ROs 250VAc, 16A, 200JF  
Software version: 1.0.0 State: no error

FRAM MODBUS Unit Only valid if DIP switch is set to 0 on IO module  
Set... 234

Reset Counters Set relay outputs Enable Logic Disable Logic Clear all logic Configure Logic

Register	Value	Comment
4x00001	0x0000,0	Counter for rising edges on D11
4x00002	0x0000,0	Counter for falling edges on D11
4x00003	0x0000,0	Counter for rising edges on D12
4x00004	0x0000,0	Counter for falling edges on D12
4x00005	0x0000,0	Counter for rising edges on D13
4x00006	0x0000,0	Counter for falling edges on D13
4x00007	0x0000,0	Counter for rising edges on D14
4x00008	0x0000,0	Counter for falling edges on D14
4x00009	0x0000,0	Counter for rising edges on D15
4x00010	0x0000,0	Counter for falling edges on D15
4x00011	0x0000,0	Counter for rising edges on D16
4x00012	0x0000,0	Counter for falling edges on D16
4x00013	0x0000,0	Counter for rising edges on D17
4x00014	0x0000,0	Counter for falling edges on D17
4x00015	0x0000,0	Counter for rising edges on D18
4x00016	0x0000,0	Counter for falling edges on D18
4x00017	0x0000,0	Counter for rising edges on D19
4x00018	0x0000,0	Counter for falling edges on D19
4x00019	0x0000,0	Counter for rising edges on D10
4x00020	0x0000,0	Counter for falling edges on D10
4x00021	0x0000,0	Counter for rising edges on D11
4x00022	0x0000,0	Counter for falling edges on D11

**Project manager**

New Project  
RESI-4LED-ASCII - [RESI-4LED-ASCII]

**Local COM port settings**

Modbus unit: 1 Device:   
Baudrate: 57600 Parity:

**Device specific**

Download config Test connection Test

RESI-4LED-ASCII  
Software version: 1.0.0 State: no error

FRAM MODBUS Unit Only valid if DIP switch is set to 0 on IO module  
Set... 45

Choose demo Set LED mode Set channel A Set channel B Set channel C Set fade speed Set minimum time Set maximum time

Register	Value	Comment
4x00001	0x0000,0	Current value for LED channel L01 LED Group #1 A (0.4095-0.100'
4x00002	0x0000,0	Current value for LED channel L02 LED Group #1 B (0.4095-0.100'
4x00003	0x0000,0	Current value for LED channel L03 LED Group #1 C (0.4095-0.100'
4x00004	0x0000,0	Current value for LED channel L04 LED Group #2 A (0.4095-0.100'
4x00005	0x0000,0	Current value for LED channel L05 LED Group #2 B (0.4095-0.100'
4x00006	0x0000,0	Current value for LED channel L06 LED Group #2 C (0.4095-0.100'
4x00007	0x0000,0	Current value for LED channel L07 LED Group #3 A (0.4095-0.100'
4x00008	0x0000,0	Current value for LED channel L08 LED Group #3 B (0.4095-0.100'
4x00009	0x0000,0	Current value for LED channel L09 LED Group #3 C (0.4095-0.100'
4x00010	0x0000,0	Current value for LED channel L010 LED Group #4 A (0.4095-0.100'
4x00011	0x0000,0	Current value for LED channel L011 LED Group #4 B (0.4095-0.100'
4x00012	0x0000,0	Current value for LED channel L012 LED Group #4 C (0.4095-0.100'
4x00013	0x0001,1	Current mode for LED group 1 (0=OFF,1=ON,2=FLASH,3=FADE,4=R
4x00014	0x0001,1	Current mode for LED group 2 (0=OFF,1=ON,2=FLASH,3=FADE,4=R
4x00015	0x0001,1	Current mode for LED group 3 (0=OFF,1=ON,2=FLASH,3=FADE,4=R
4x00016	0x0001,1	Current mode for LED group 4 (0=OFF,1=ON,2=FLASH,3=FADE,4=R
4x00017	0x000a,10	Current fade speed for FADE.RANDOM for LED group 1 in steps pe
4x00018	0x000a,10	Current fade speed for FADE.RANDOM for LED group 2 in steps pe
4x00019	0x000a,10	Current fade speed for FADE.RANDOM for LED group 3 in steps pe
4x00020	0x000a,10	Current fade speed for FADE.RANDOM for LED group 4 in steps pe

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