#### **DALCNET S.r.I.**

LED DIMMER DLD1248-1CV Bus: DMX or DALI DC In: 12÷48V Out: max 8A

DC IN

CE

OUT

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- Output: 1 x channel
- BUS+FADER+DIMMER+DRIVER
- Input: DC 12/24/48 Vdc
- BUS Command: DMX512+RDM, DALI, MODBUS
- LOCAL Command: N.O. push button (with or without memory), 0-10V, 1-10V, Potentiometer
- · Adjusting the brightness
- Voltage outputs for R-L-C loads
- Typical efficiency > 95%
- Adjusting the brightness up to completed off (Dim to dark)
- Level minimum of brightness: 0.1% (1% in push)
- D-PWM Modulation
- Adjusting D-PWM frequency: 300 / 600 / 1200 Hz
- Adjusting output curve: Linear / Quadratic / Exponential
- Soft start and soft stop
- Optimized output curve
- Master / Slave Function (DMX variant)
- Extended temperature range
- 100% Functional test 5 Years warranty
- → For the whole and updated Device Manual refer to producer's website: http://www.dalcnet.com

#### Constant voltage variants (common anode)

CODE	Supply Voltage	Output	Channel	Command	
DLD1248-1CV-DMX	12/24/48V DC	1x8A max	1	DMX – N.O. push button / 0÷10 / 1÷10 / Potentiometer	PROFESSIONAL
DLD1248-1CV-DALI	12/24/48V DC	1x8A max	1	DALI – N.O. push button / 0÷10 / 1÷10 / Potentiometer	PROFESSIONAL
DLD1248-1CV-MODBUS	12/24/48V DC	1x8A max	1	MODBUS RTU – N.O. push button / 0÷10 / 1÷10 / Potentiometer	PROFESSIONAL

#### **Protections**

ОТР	Over temperature protection
OVP	Over voltage protection
UVP	Under voltage protection
RVP	Reverse polarity protection
IFP	Input fuse protection
SCP	Short circuit protection
OCP	Open circuit protection
CLP	Current limit protection



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### **Reference Standards**

EN 61347-1	Lamp controlgear - Part 1: General and safety requirements	
EN 55015	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment	
EN 61547	Equipment for general lighting purposes - EMC immunity requirements	
EN 50581	Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances	
IEC/EN 62386-101	Digital addressable lighting interface - Part 101: General requirements - System	
IEC/EN 62386-102	Digital addressable lighting interface - Part 102: General requirements - Control gear	
IEC/EN 62386-207	Digital addressable lighting interface - Part 207: Particular requirements for control gear - LED modules (device type 6)	
IEC 60929-E.2.1	Control interface for controllable ballasts - control by d.c. voltage - functional specification	
ANSI E 1.3	Entertainment Technology - Lighting Control Systems - 0 to 10V Analog Control Specification	
ANSI E1.11	Entertainment Technology - USITT DMX512-A - Asynchronous Serial Digital Data Transmission Standard for Controlling Lighting Equipment and Accessories	
ANSI E1.20	Entertainment Technology-RDM-Remote Device Management over USITT DMX512 Networks	
-	MODBUS APPLICATION PROTOCOL SPECIFICATION V1.1b	

### **Technical Specification**

	Variants		
		Constant voltage	
Supply voltage		DC min: 10.8 Vdc max: 52,8 Vdc	
Output voltage		= Vin	
Output current		max 8 A peak <sup>1)</sup> max 7,5A @55°C <sup>1)</sup> max 6,5A @60°C <sup>1)</sup>	
Nominal power <sup>1)</sup>	@12V	78 W (6,5A @ 60°C) – 90 W (7,5A @55°C)	
	@24V	156W (6,5A @ 60°C) – 180 W (7,5A @55°C)	
	@48V	312W (6,5A @ 60°C) – 360 W (7,5A @55°C)	
Thermal shutdown		150 °C	
Command supply current		0,5mA (per 1-10V)	
Command required current (max)		0,1mA (per 0-10V)	
D-PWM dimming frequency		300Hz – 600Hz – 1200Hz	
D-PWM resolution		16 bit	
D-PWM range		0,1% ÷ 100%	
Storage Temperature		min: -40 max: +60 °C	
Ambient Temperature <sup>1)</sup>		min: -40 max: +60 °C	
Protection grade		IP10	
Wiring		2.5mm² solid - 1.5mm² stranded - 30/12 AWG	
Mechanical dimensions		92 x 36 x 62 mm - DIN RAIL 2mod.	
Packaging dimensions		124 x 71 x 48	
Weight		88g	

<sup>1)</sup> maximum value, dependent on the ventilation conditions

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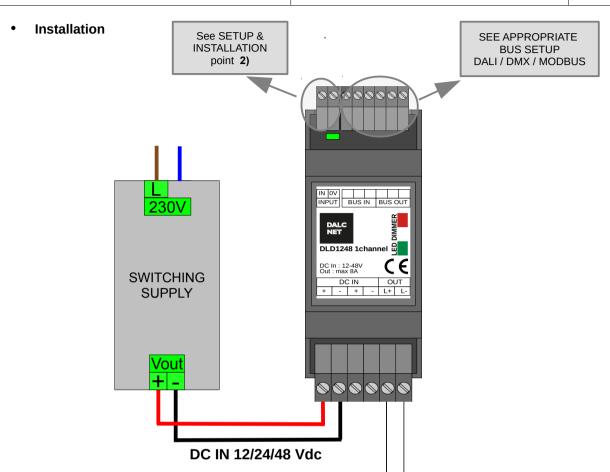
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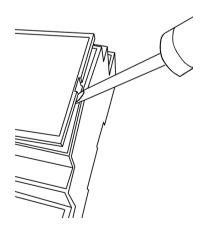


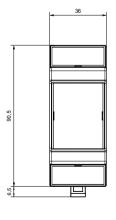
#### Opening the cover

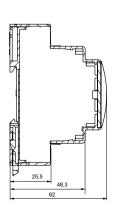
#### **Mechanical dimension:**

(without connectors)

For the Dip-switch and selectors configuration it is necessary to pull up the cover of the device. See the picture.









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#### Technical notes

#### Installation:

- Installation and maintenance must be performed only by qualified personnel in compliance with current regulations.
- The product must be installed inside an electrical panel protected against overvoltages.
- The product must be installed in a vertical or horizontal position with the cover / label upwards or vertically; Other positions are not permitted. It is not permitted to bottom-up position (with the cover / label updown).
- Keep separated the circuits at 230V (LV) and the circuits not SELV from circuits to low voltage (SELV) and from any connection with this product. It is absolutely forbidden to connect, for any reason whatsoever, directly or indirectly, the 230V mains voltage to the bus or to other parts of the circuit.

#### Power Supply:

• For the power supply use only a SELV power supplies with limited current, short circuit protection and the power must be dimensioned correctly.

In case of using power supply with ground terminals, all points of the protective earth (PE = Protection Earth) must be connected to a valid and certified protection earth.

- The connection cables between the power source "low voltage" and the product must be dimensioned correctly and they should be isolated from every wiring or parts at voltage not SELV. Use double insulated cables.
- Dimension the power supply for the load connected to the device. If the power supply is oversized compared with the maximum absorbed current, insert a protection against over-current between the power supply and the device.

  Command:
- The length of the connection cables between the local commands (N.O. Push button, 0-10 V, 1-10 V, Potentiometer or other) and the product must be less than 10m; the cables must be dimensioned correctly and they should be isolated from every wiring or parts at voltage not SELV. Use double insulated shielded and twisted cables.
- The length and type of the connection cables at the BUS (DMX512, Modbus, DALI or other) use cables as per specification of the respective protocols and regulations and they should be isolated from every wiring or parts at voltage not SELV. Use double insulated shielded and twisted cables.
- All the product and the control signal connect at the bus (DMX512, Modbus, DALI or other) and at the local command (N.O. Push button, 0-10 V, 1-10 V, Potentiometer or other) must be SELV (the devices connected must be SELV or supply a SELV signal)

  Outputs:
- The length of the connection cables between the product and the LED module must be less than 10m; the cables must be dimensioned correctly and they should be isolated from every wiring or parts at voltage not SELV. Is preferable to use shielded and twisted cables.

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## ■ SETUP & INSTALLATION

A 6 way dip-switch (under the cover) can provide a rich set of possible configurations:

Function

1 2 3 4 5 6

Curve Input Hz

Note: Factory positions = all OFF

• Switches from 1 to 2: Curve

• Switches from 3 to 4: Input Type

• Switches from 5 to 6: Output Frame Rate ( Freq.)

1) Select Dimming Curve: Switches from 1 to 2

Default (by bus type)

Exponential 1 2

Quadratic

1 2

Linear

2) Select Local Input Typ: Switches from 3 to 4

In Type	Description	Connections	Settings
Push	N.O. Pushbutton, NO MEMORY	IN OV	3 4
	N.O. Pushbutton, MEMORY	IN OV IN	3 4
0-10V	Input Analogic 0-10V	0-10V 0+ -0 IN 0V IN	3 4
1-10V	Input Analogic 1-10V & Potentiometer	1-10V IN 0V IN 0V IN 1N	3 4

3)Set Output Frequency: Switches from 5 to 6

300Hz 600Hz 1200Hz Reserved 5 6



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## LOCAL INPUTS

#### Available Functions: N.O. PUSH BUTTON memory / N.O. PUSH BUTTON no memory:



#### Dimmer

Dim the light following the selected dimming curve, keeping a constant color temperature.

Soft Turn On with 200ms fade time, Soft Turn Off with 1s fade time.

CLICK: Turn ON/OFF light. Double Click: Turn On light at 100% Long pressure (>1s) from OFF: Turn on at 1% (Nighttime) Long pressure (>1s) from ON: Dimmer UP/DOWN

#### Available Functions: 0-10V / 1-10V / potentiometer:



#### Dimmer

Dim the light following the selected dimming curve, keeping a constant color temperature. Minimum intensity = 0.1%.

Below 1V = Turn OFF light. 10V = Maximum intensity.

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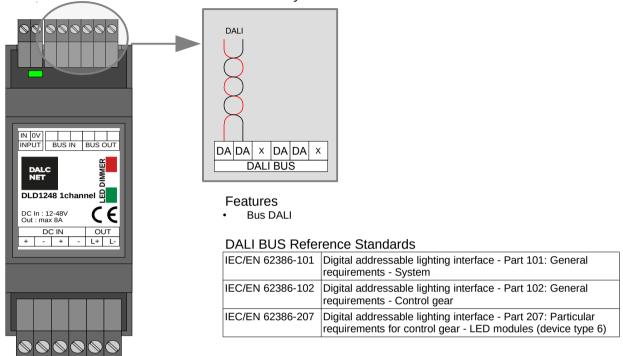
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### DALI BUS SETUP

In DALI BUS SETUP all the leds are controlled by an external DALI controller.



#### Onboard led:

In the case of no bus power detected, or bus error, the led blinks fast (2 pulsed per second).

In the case of bus power but no data, led blinks slow (1 pulse per second).

In the case of data link active, the led stands on.

#### Relation with local commands

At power-up, in case of absence of connection to the BUS, local control is active.

When the BUS is detected, the control passes to the BUS. It remains to the BUS until there is signal.

In the absence of signal:

- if the local command is N.O. PUSH BUTTON, the control passes to local command in the event of a N.O. push button pressure.
- if the local command is 0-10V or 1-10V the control passes immediately to the local command.

#### Addressing

Simplified method (One ballast connected at a time)	<b>√</b>
Random Address Allocation	✓

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CHANNELS MAP - DALI

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/ The intensity and it	ie siailis ittiivitee	-) IS CONHONED DV DALL
into intoriony and in	io otatao (o. i, o. i	) to controlled by Dr L

Addr	Function	Map: Dimmer
+0	Dimmer	Dimmer (Brightness Value)  0 254

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#### **DALI COMMANDS**

STANDARD COMMANDS	<b>✓</b>
DIRECT ARC POWER	
OFF	<b>*</b>
UP	<b>*</b>
DOWN	<b>*</b>
STEP UP	· ·
STEP DOWN	<b>√</b>
RECALL MAX LEVEL	✓
RECALL MIN LEVEL	✓
STEP DOWN AND OFF	✓
ON AND STEP UP	✓
GOTO SCENE (0 to 15)	✓
RESET	✓
STORE ACTUAL LEVEL IN THE DTR	✓
STORE THE DTR AS MAX LEVEL	✓
STORE THE DTR AS MIN LEVEL	✓
STORE THE DTR AS SYSTEM FAILURE LEVEL	✓
STORE THE DTR AS POWER ON LEVEL	✓
STORE THE DTR AS FADE TIME	1
STORE THE DTR AS FADE RATE	1
STORE THE DTR AS SCENE (0 to 15)	1
REMOVE FROM SCENE (0 to 15)	1
ADD TO GROUP (0 to 15)	1
REMOVE FROM GROUP (0 to 15)	1
STORE DTR AS SHORT ADDRESS	1
ENABLE WRITE MEMORY	JE .
QUERY STATUS	1
QUERY BALLAST	1
QUERY LAMP FAILURE	1
OUERY LAMP POWER ON	1
QUERY LIMIT ERROR	1
QUERY RESET STATE	1
QUERY MISSING SHORT ADDRESS	· ·
QUERY VERSION NUMBER	· ·
-	· ·
QUERY CONTENT DTR	· ·
QUERY DEVICE TYPE	
QUERY PHYSICAL MINIMUM LEVEL	<b>√</b>
QUERY POWER FAILURE	<b>√</b>
QUERY CONTENT DTR1	<b>*</b>
QUERY CONTENT DTR2	<b>*</b>
QUERY ACTUAL LEVEL	✓
QUERY MAX LEVEL	<b>✓</b>
QUERY MIN LEVEL	✓
QUERY POWER ON LEVEL	✓
QUERY SYSTEM FAILURE LEVEL	✓
QUERY FADE TIME / FADE RATE	✓
QUERY SCENE LEVEL (0 to 15)	✓
QUERY GROUPS 0-7	✓
QUERY GROUPS 8-15	✓
QUERY RANDOM ADDRESS H	1
QUERY RANDOM ADDRESS M	✓
QUERY RANDOM ADDRESS L	1
READ MEMORY LOCATION	se
QUERY EXTENDED VERSION	x

SPECIAL COMMANDS	$\neg$
TERMINATE	1
DATA TRANSFER REGISTER	1
INITIALIZE	1
RANDOMIZE	1
COMPARE	<ul><li>✓</li><li>✓</li></ul>
WITHDRAW	1
SEARCHADDR H	1
SEARCHADDR M	·
SEARCHADDR L	· /
PROGRAM SHORT ADDRESS	· /
VERIFY SHORT ADDRESS	· /
QUERY SHORT ADDRESS	· /
	, x
PHYSICAL SELECTION	
ENABLE DEVICE TYPE	*
DATA TRANSFER REGISTER 1	1
DATA TRANSFER REGISTER 2	<b>√</b>
WRITE MEMORY LOCATION	*
	$\longrightarrow$
	$\Box$
	$\Box$
	$\neg$
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	$\dashv$
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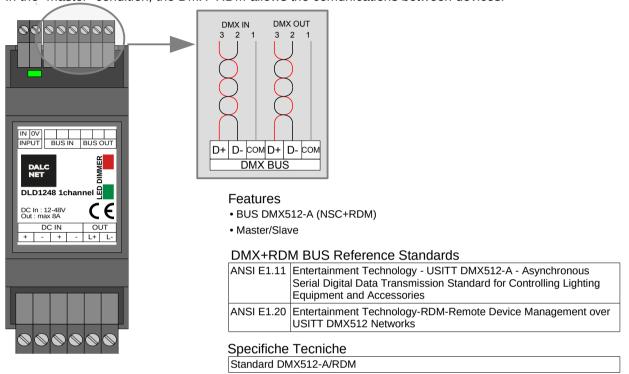
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#### DMX+RDM BUS SETUP

With the **DMX+RDM BUS SETUP** in the "slave" condition the outputs are managed by an external DMX controller.

In the "master" condition, the DMX+RDM allows the comunications between devices.



#### Onboard led:

In the case of bus error, the led blinks fast (2 pulsed per second). In the case of no bus detected, led blinks slow (1 pulse per second). In the case of data link active, the led stands on.

#### Relation with local commands

At power-up, in case of absence of connection to the BUS, local control is active.

When the BUS is detected, the control passes to the BUS. It remains to the BUS until there is signal.

In the absence of signal:

- if the local command is N.O. PUSH BUTTON, the control passes to local command in the event of a N.O. push button pressure.
- if the local command is 0-10V or 1-10V the control passes immediately to the local command.

#### Addressing:

RDM	✓
By selectors	

	000 (default):	\$\frac{1}{2} \\ \frac{1}{2} \\ \frac	Address defined by RDM
DMX	from 001		to $\begin{cases} \frac{1}{681} & \frac{1}{681} & \frac{1}{681} & \frac{1}{681} \end{cases}$ First channel address, from 1 to 512
	F00	\$\frac{\x}{8}\bigg\\ \frac{\x}{6}\bigg\\ \frac	MASTER

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#### CHANNELS MAP - DMX512

The intensity and the status (ON/OFF) is controlled by DMX512

Ch	Function	Map: Dimmer
1	Dimmer	Dimmer (Brightness Value)  0 255

#### **RDM COMMANDS**

REQUIRED PARAMETERS	
DISC_UNIQUE_BRANCH	✓
DISC_MUTE	✓
DISC_UN_MUTE	✓
SUPPORTED_PARAMETERS	✓
PARAMETER_DESCRIPTION	✓
DEVICE_INFO	✓
SOFTWARE_VERSION_LABEL	✓
DMX_START_ADDRESS	✓
IDENTIFY_DEVICE	✓

SUPPORTED PARAMETERS	
PRODUCT_DETAIL_ID_LIST	1
DEVICE_MODEL_DESCRIPTION	1
MANUFACTURER_LABEL	1
DEVICE_LABEL	1
BOOT_SOFTWARE_VERSION_ID	1
BOOT_SOFTWARE_VERSION_LABEL	1
DMX_PERSONALITY	1
DMX_PERSONALITY_DESCRIPTION	1
SLOT_INFO	1
SLOT_DESCRIPTION	1
DEFAULT_SLOT_VALUE	1

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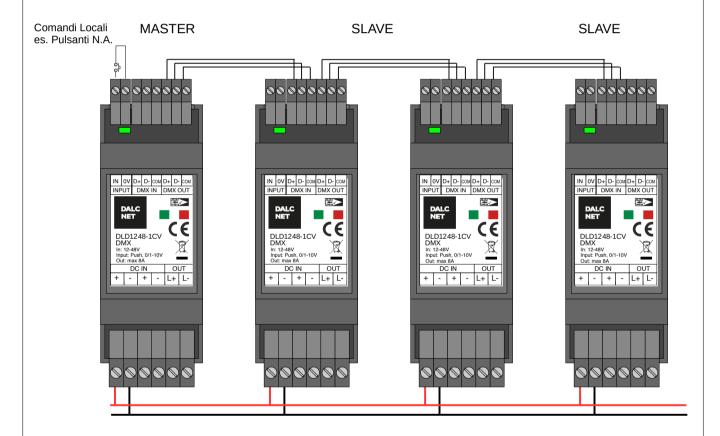
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### DMX Master/Slave

### **Example to Master/Slave connection**

More DLD1248-1CV-DMX devices can be connected following a master/slave configuration. <u>Master and Slave must be the same DIP-SWITCH configuration.</u> To select the desired local command, DIP-SWITCH need to be set as explained in **Setup DMX MASTER/SLAVE** on page 13.



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## DLD1248 BUS single channel

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## Setup DMX Master/Slave

### Master:

Note: Master and Slave must have setted the same map (switches da 1 a 2 e da 5 a 6 see page 4).

#### Default Master:



**MASTER** 

### Master with FADE UP / FADE DOWN:





to FFF



MASTER with fade:

Selector " x 10" = UP fade time Selector "x 1" = DOWN fade time

0 = no fade, F=60seconds (see table)

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#### Fade times:

0	1	2	3	4	5	6	7	8	9	Α	В	С	D	Е	F
NO fade	0.5s	1s	2s	3s	4s	5s	6s	7s	8s	9s	10s	15s	20s	30s	60s

#### Examples:

If you want to have a turn on fade of 1 second (fade UP) and a turn off fade of 10 seconds (fade DOWN) is necessary to set the switches as follows:

Selector  $\dot{x}100$  (left selector) = "F", in this case the device is set to as MASTER;

Selector x10 (middle selector) = "2", in this case the Fade UP is equal to 1s

Selector x1 (right selector) = "B", in this case the Fade DOWN is equal to 10s

### Slave:

Note: Master and Slave must have setted the same map (switches da 1 a 2 e da 5 a 6 vedi page 4).

### **Default Slave:**



Slave

#### Note:

The Slaves follow master fade ramps.

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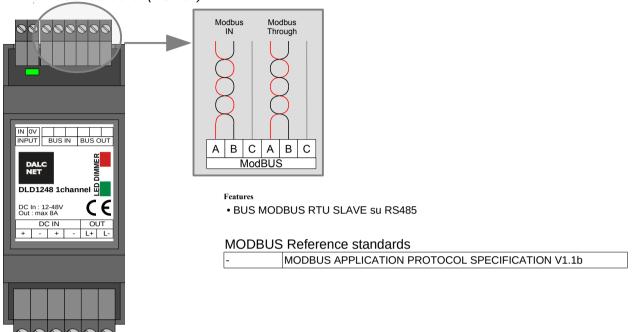
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### MODBUS SETUP

In **MODBUS SETUP** in the "slave" condition the outputs LEDs are managed by an external MODBUS RTU master controller (RS-458).



#### Onboard led:

In the case of bus error, the led blinks fast (2 pulsed per second). In the case of no bus detected, led blinks slow (1 pulse per second). In the case of data link active, the led stands on.

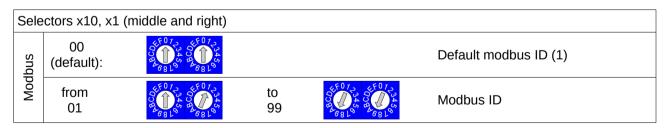
#### Relation with local commands

At power-up, in case of absence of connection to the BUS, local control is active.

When the BUS is detected, the control passes to the BUS. It remains to the BUS until there is signal. In the absence of signal:

- if the local command is N.O. PUSH BUTTON, the control passes to local command in the event of a N.O. push button pressure.
- if the local command is 0-10V or 1-10V the control passes immediately to the local command.

#### Addressing by selectors



Sele	ctor x100 (lef	ft)						
Modbus	0	1	2	3	4	5	6	7
	115200 baud	115200 baud	38400 baud	38400 baud	19200 baud	19200 baud	9600 baud	9600 baud
	8N1	8E1	8N1	8E1	8N1	8E1	8N1	8E1



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#### CHANNELS MAP - MODBUS

The intensity and the status (ON/OFF) is controlled by MODBUS

Var	Function	Map: Dimmer
0	Dimmer	Dimmer ( <b>B</b> rightness <b>V</b> alue) 0 255

## DALCNET S.r.I.

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## DLD1248 BUS single channel

PRO

**Device Manual** 



FW 1.0

Rev. 2018-05-04 pag. 16/16

#### SUPPORTED FUNCTIONS FOR READING AND WRITING - MODBUS RTU

Functi	on code	
0x01	Read Coils	×
0x02	Read Discrete Inputs	×
0x03	Read Holding Registers	✓
0x04	Read Input Register	×
0x05	Write Single Coil	×
0x06	Write Single Register	✓
0x07	Read Exception Status	×
0x08	Diagnostic	×
0c0B	Get Com Event Counter	×
0x0C	Get Com Event Log	×
0x0F	Write Multiple Coils	×
0x10	Write Multiple Registers	✓
0x11	Report Server ID	×
0x14	Read File Record	×
0x15	Write File Record	×
0x16	Mask Write Register	×
0x17	Read/Write Multiple Registers	×
0x18	Read FIFO queue	×
0x2B	Read Device Identification	×