

Features

- DALI Gateway Server with IEC 62386 support
- AC Universal input, 5W
- DALI channel: 1 set, guaranteed 220mA, max 250mA
- Control: Ethernet with DHCP, ModBus TCP
- Protection: DALI channel short circuit
- Global safety compliant
- Suitable for home and office
- Others: Smart Engine, Time Sync, Event & scheduler, etc



MA221DB1

ARTILECT GREEN

Artilect Green Co., Ltd.http://www.artilectgreen.comTel: +886-2-2597-6188Email: info@artilectgreen.com6F., No. 34-1, Jiuquan St. Datong Dist., Taipei City 10367, Taiwan

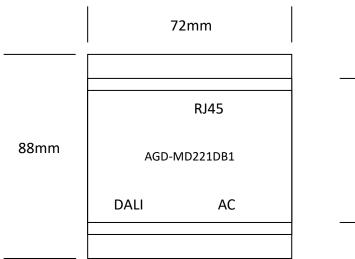


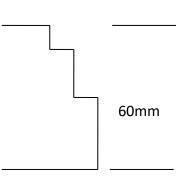
2. Specification

Technical Data

Model		AGD-MA221DB1	
Output	DALI Channel	1 with power source	
	Current	220mA guaranteed/250mA max for each channel	
Input	Voltage	Universal, 100 ~ 240V AC	
	Power	Max 5W	
	Standby W	< 3W	
Protection	Short	Yes for DALI channels	
Working	Temperature	-30 ~ +45 °C	
environment Storage -40 ~ +80 °C , 10 ~ 95% Non-condensing		-40 ~ +80 $^\circ\mathrm{C}$, 10 ~ 95% Non-condensing	
Other	Арр	Free iPhone & Android Remote Control App	
	Protocol	ModBus TCP, Artilect V3	

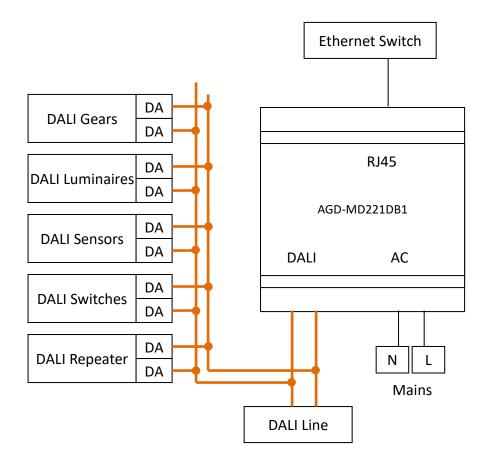
Dimension





3. Installation

Wiring and circuit diagram



- Wirings must be done when the main power source is off.
- DA/DA are wires for DALI bus lines. Connect to DALI devices only.
- Please make sure that total devices and bus current consumption does not exceed each channel's limit.
- Please keep the join of cables away from human environment. Double enforcement cables are recommended.

Hot plug-in

Hot plug-in is not recommended for AC wires. Only DALI wires are allowed for hot plug-in.

DALI Bus

DALI bus has designed with short and overheat protection. When each DALI channel is overheated due to shorted output or abnormal operation, it will turn off the failure

channel till it is recovered. The gateway will also repeatedly check its output at the frequency of 15 seconds or so.

To allow DALI bus powered devices to boot up smoothly, the gateway will provide DALI current source for minutes before its channel is overheated. The protection point of overheating temperature can be configured with its software tool.

4. Configuration Software

Artilect SmartLink provides highly advanced DALI configuration tool. Using this tool may require some knowledge of DALI standard and infrastructure. For more information, please, contact Artilect Green's sales for further information and its download link.

R #		DALI Gears/Drivers/Luminaires	Configurator 및 단
I5 > A:01.A4	Gateways V	DALI Gear/Luminaire Memory Bank Product Information LED Driver	
15 > A:FE 15 > A:01.99	V Channel - A - 0	Information	*Fading Controls
	Addr: 0 - ()	Channel: A Short Addr: 0 Version: 2.0	Target Fade Time: 0.707 Fade Rate: 7 (44 steps/s)
15 > A:FF 15 > A:01.A7	Addr: 1 - 0		regeriede mile: erer i rederiete: / (Hateppy)
	Addr: 2 - 0	Name:	Fade Time: 0.707 Fast Fade Time: 0 (< 0.025s)
15 > A:06 15 > A:01 A7		*Dimming Bar	Ext. Fade Time: O second • • 1
J > AULA	Addr: 3 - ()		Ext. Fade Time: 0 second • + 1 •
15 > A:32	Addr: 4 - ()	1	*Arc Level Control
15 > A:01.A7	Addr: 5 - 0		Power On Arc Lv: 254 System Failure Lv: 254
15 > A:FE	Addr: 6 - 0	Off On On/Off Stop Level: 254 / 254	Power On Arc LV: 254 System Failure LV: 254
IS > A:01.9F			Min Arc Lv: 8 Max Arc Lv: 254
I5 > A:06	Addr: 7 - 0	Supported Types	Phy. Min Arc Lv: 8
I5 > A:01.98	Addr: 8 - 0	Type Version	· · ·
15 > A:00	Addr: 9 - ()	6 - Light-Emitting Diodes 2.0	Status
15 > A:01.9C	Addr: 10 - 0	50 - Luminaire Ext-Info 2.0	Device Error Power Restart Limit Error No Addr
15 > A:04			At Reset Status 🗸 Output On 🗌 Arc Fading 🗌 Lamp Error
15 > A:00	Addr: 11 - ()	Light Source Type	At Reset status 🖌 Output On 🔄 Arc rading
I5 > A:01.97	Addr: 12 - 0 6 - light-emitting diodes		*Group Members
15 > A:08	Addr: 13 - 0		
15 > A:01.FF	Addr: 14 - 0		0 1 2 3 4 5 6 7
15 > A:C1.06	Addr: 15 - 0		
I5 > A:01.FF		DALI Command Pool	
15 > A:08	Addr: 16 - 0	Max Min Step Up Step down	*Scene Arc Levels
I5 > A:C1.32	Addr: 17 - 0		0: 255 1: 255 2: 255 3: 255
15 > A:01.FF	Addr: 18 - ()	Dim Up Dim Down On/Step Up Step Down/Off	
15 > A:08	Addr: 19 - 0		4: 255 5: 255 6: 255 7: 255
15 > A:C1.06 15 > A:01.FD		Identify Last Arc Level Save Persistence Turn Off	8: 255 9: 255 10: 255 11: 255
	Addr: 20 - ()	Reset Move All Devices Move One Device	
15 > A:00 15 > A:01.A1	Addr: 21 - ()		12: 255 13: 255 14: 255 15: 255
IS > AULAL	Addr: 22 - ()		Color Type: Color Temperature -
15 > A:FE	Addr: 23 - 0		Color Temperature: 0 Kelvin
15 > A:01.A2	Addr: 24 - 0		
15 > A:08	100.24-0	Download All Download All + Memory Banks Upload All	Clone
15 > A:01.A8	Select Servers Options Input/Sensor/0	Control Device Luminaire/Driver/Control Gear	
IS > A:00	> Access messages		

5. Others

Warning / Caution !!

- Risk of electrical shock and energy hazard. All failure should be examined by a qualified technician. Please do not remove the case of the device!
- The openings should be protected from foreign objects or dripping liquids.
- Please do not install the device in places with high ambient temperature or

close to fire source. Please refer to the specifications about the maximum ambient temperature limitations.

- If the cases or terminal connector of this device is damaged, it shall be exclusively replaced by the manufacturer or his service agent or a similar qualified person in order to avoid a hazard.
- The DALI is designed as FELV circuit, its terminal shall connect to FELV circuit. Connecting to SELV will lower its isolation level to FELV.