

LD220WCM

WIRELESS CONTROL MODULE

Bluetooth dimmer



LD220WCM
V-4022010WCM

- Bluetooth
- 1-200VA
- Easy dimming via app for Android / iOS
- Scenario functioner
- Astrofunction

VADSBO
Vadsbo LightTech



LD220WCM

Bluetooth controlled LED dimmer

Dimming with wireless Bluetooth technology

The popular dimmer series LD, now gets WCM option (V-4022010WCM) that adds wireless control features based on the standard Bluetooth protocol found in most modern smartphones and tablets. Download the Casambi app for Android (requires version 4,4+) or Apple's iOS and take control of your luminaires and get full dimming control through your smartphone.

Range

LD220WCM works with MESH technology, which means that the units are talking to each other, and you only need to have coverage to one single unit. By using the MESH network technology you only need to be within range (normally 30 meter) of a single unit to have control over all units in your installation. Because of the MESH technology you can build large scale installations with up to 127 units and easily control them all from your smart phone or tablet.

Group and scene settings

Each control gear in your installation can be controlled entirely individually. It is also possible to control the two outputs of the control gear separately. Most common is that the user wants to control a group of luminaires simultaneously to easily dim an entire room. The control gears are grouped by the app, and you can easily dim / control them simultaneously.

Momentary switch function

Connect a regular momentary switch and get synced control over whichever LD220WCM dimmers you wish. The switch can be tailored on your smartphone to get control over a unit or a group. Or even any other LD220WCM device that is connected to Bluetooth MESH network. Programming is simply done on your phone. With this support it means that you can easily get control of your LD220WCM even if your phone or tablet would be shut off.

Access and share settings

The internal communication between the control gears is protected by asymmetric keys and an encryption scheme. The first time your LD220WCM dimmers are being used, they are paired to a master device (smartphone or tablet). The network or the device can then be shared with the number of units you want by entering the password or leave it open for access by any device desired. Simple and user friendly.



LD220WCM
V-4022010WCM

Continually updated control gears

The software in your LD220WCM is easily updated by connecting it through your smartphone or tablet to the internet. That gives you access to the latest features and updates on your control gears. Through the MESH network your control gears will communicate with each other and update each other.

230V installation

The bluetooth dimmer LD220WCM is designed to dim the LEDs, therefore the low start up power at 1W. It is very flexible in the sense that it is able to dim all 230V installations up to 200VA, whether it is LED, halogen, incandescent lamps or low energy.

Flexibility

Thanks to the market's most common communication protocol are broadly available in all smartphones / tablets today the integrated Bluetooth and MESH technology offers LD220WCM endless possibilities! This provides the easiest setup of any installation. With the LD220WCM, any combination of CV and CC LED can be mixed and controlled from the same simple intuitive interface using your smartphone / tablet.

Astro function and time schedule

Astro function means that the lighting follows the sunrise / sunset. By choosing your geographic location, you are given the ability to control your lighting after your sunrise / sunset. The time schedule and astro function is set via the app. The settings is then stored in the LED control gears memory and will work after the gear's internal clock.

Additional control options

Take a photo of your living room or conference room, then combine it with the app to tie the luminaire through the photo. Now you can easily get control of your selected room by pressing the fixture and then drag the slider that appears. It's that easy.

LightKey 2015

LD220WCM 1-200VA

Vadsbo have tested dimmable 230V LEDs against the trailing edge dimmer LD220WCM and rated the combination between 1-5 according to the rating explained at the bottom.



**LD220WCM
1-200VA**

Rating explanation:

- 5) Excellent combination
- 4) The light source is dimmed in a good way
- 3) The light source is dimmed.
Flicker / hum may appear in the bottom position
- 2) The light source is dimmed.
Flicker / hum may appear in different positions
- 1) See 2) Too short-ranged dimming
- 0) Improper combination

Black = Scores with only the lamp power load

Red = Scores where the base load is used to exceed the dimmers min. load

Note

Depending on the brand, the LED and low-energy light may consume up to twice the rated power (reactive power).

Light source	Base	Power	Brand	Item/EAN no.	Rate
	E14	3.5W	Philips	8718291743255	5
	GU10	4W	Philips	8718291697084	4
	GU10	4.5W	Philips	8718696457030	5
	GU10	5.5W	Philips	8718696457153	4
	E27	6W	Philips	8718696481288	5
	E27	6W	Philips	8718696453605	5
	E27	7W	Philips	8718696481288	5
	E27	10W	Philips	8718696481325	5
	E27	13W	Philips	8718291758525	5
	E27	18W	Philips	8718291758563	5
	E27	4.5W	GE	0043168100878	5
	GU10	6W	GE	0043168845472	5
	E27	14W	GE	0043168965477	5
	GU10	6,5W	SG	912170	5
	E14	3W	Star Trading	338-01	5
	E27	5.5W	Star Trading	336-30	5
	GU10	7W	Star Trading	348-12	5
	E27	10W	Star Trading	358-66	5

Technical specification

Designation	LD220WCM
Load	1-200VA
Part number	V-4022010WCM
Input	220-240V
Standby Power	<0.5W
Max current	0,87 A
Frequency	50/60Hz
Dimming control	One or more pushbutton switch, or/and via bluetooth
Softstart	Yes
Dimming level memory	Yes, also after disconnect mains
Protection	
- overload	Yes
- over temperature	Yes, automatic recovery after removal of faults
- short-circuiting	Yes
Mount	Built-in mounting box or wall mounting
Working humidity	0~85%
Working temperature	-20~50°C
Dimension	Ø56x22 mm
Weight	35g
Housing	
- colour	White
- material	PC(IR) 2200
- flame class	V-2
For dimming of	For dimmable low energy lamps, 230V LED, electronic transformers, LED-drivers, incandescent light and 230V halogenlamps. <i>Do not forget to take into account the reactive power in the calculation of the load.</i>
Dimming range	5-100%
Adjustable minimum dimming level	Yes
Isolation class	IP20
Protection index	II
Approvals	CE/S
Manufacturing standard	EN60669

Version 1
2015-10-14