

LEDsmart™

Push Dimmer / Switch Part Number: MEDM/DGPB

INTRODUCTION

Designed in Australia to provide optimised dimming of LED based lamps and drivers, this high quality two-wire phase control wall plate dimmer and switch has a minimum load rating of 1W.

Although optimised for LED loads, the dimmer also provides excellent compatibility with common lamp types such as incandescent, 12V halogen and CFL's.

FEATURES

- Integrated Tap on / Tap off switch
- Push and hold to dim up/down
- · White LED, illuminated bezel • Flush and rocker style button options
- Quiet, soft press button no harsh click
- Dim to OFF with most LED light sources
- Capable of driving non-dimmable CFL loads
- Kids Bedroom feature double tap when on to dim
- down over 30mins Wake up mode – double tap when off to dim up over
- Programmable minimum level, maximum level, kick
- start and off state indicator Simple 3-step programming
- Settable off-state indicator
- 1W minimum load
- Separately switched mode for some low wattage LED's and non-dim CFL's
- Terminal block included for AS3000 compliance
- Easy-fit terminal block

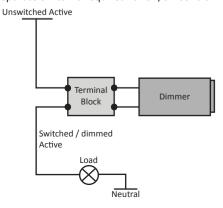
WIRING DIAGRAMS



This product must be installed by a suitably qualified installer who must work in accordance with standard safety procedures for mains-powered electrical equipment.

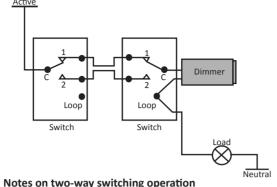
Standard wiring using the built in tap on/tap off switch

The push dimmer has a built in tap on / tap off switch, as well as the push and hold to dim function. Therefore, no separate switch is required for on/off control



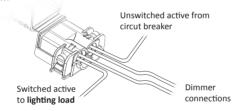
Two way switching operation

The dimmer can be installed for two-way switched operation, as shown below.



- The dimmer must be setup in Separate Switch Mode when used with a separate switch. See PART F for how to setup the dimmer in separate switch operation.
- In this configuration, the lighting can be dimmed from one location and switched from two separate locations.

The terminal block included with the dimmer should be used to make the dimmer connections, as shown below.



The terminal block can then be cable-tied to the rear of the dimmer housing utilising the loop holes on the case and terminal block



Cable-ties used to attach the terminal block

SPECIFICATIONS

ı	Nominal Line Voltage	220-240Vac	
ı	Line Voltage Frequency	ncy 50Hz Nominal (47 - 53Hz)	
ı	Load Brightness Control	0% to 100% (typical for LED	
l	Range	loads)	
ı	Rated Load	Refer Compatible Loads	
ı	Minimum Load	1W	

MULTI-GANG DE-RATING

In applications where multiple dimmers are installed in a multi-gang plate, a de-rating factor is applied to the maximum load as follows

Number of dimmers per plate	De-rating factor	
1	No de-rating	
2	0.85	
3	0.7	
4	0.55	
5	0.4	
6	0.25	

Two dimmers (and associated switches) installed in a wall plate. The maximum LED load which can be connected to each dimmer = 400W x 0.85 = 340W per dimmer

	TIBLE LOAD III LS			A ENTERING SETU	
Load Symbol	Load Type	Max. Load	Notes	If the dimmer has been power	
- ≱	Dimmable LED Lamps	400W	The LED driver must be dimmable. Maximum permitted number of drivers is 400W divided by driver nameplate power rating. Due to variety of LED lamp designs, maximum number of LED lamps is also dependent on power-factor result when connected to dimmer	30 MINUTES see A1 below. If the dimmer has been powe THAN 30 MINUTES see A2 be A-1 Dimmer has been power for LESS THAN 30 MINUTES SEE A2 DESCRIPTION OF THE SECOND OF T	
	Electronic Transformers	400W		1. Push and hold the button	
	Standard iron- core transformers	250W	Due to the variety of transformer designs, max LV lighting load is also dependent on transformer efficiency	for 10 seconds Note: connected lights will dir up or down, this is normal 2. The white LED Indicators will blink ON/OFF with 1 second intervals. This indicates that the dimmer is now in Setup Mode	
	Toroidal iron- core transformers	300W			
Ö	Incandescent	350W			
	Dimmable CFLs	400W	Due to the variety of CFL designs, the maximum number is make/model dependent		

INCOMPATIBLE LOAD TYPES

Ceiling Sweep Fans and Exhaust fans

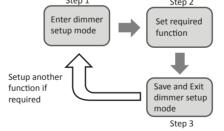
COMPATIBLE LOAD TYPES

DIMMER SETUP

The digital push dimmer / switch has a number of useful functions which can easily be set up by entering setup mode and following the easy steps in this guide.

It is recommended that the MINIMUM AND MAXIMUM BRIGHTNESS are always set. The other settings are optional, depending on the dimmer application.

All setup functions follow the same simple 3-step procedure, as shown in the diagram below. Step 1



DIMMER SETUP FUNCTIONS

All setup functions are covered in this Installation Guide See below for the relevant part of the guide.

Function	See Part
Entering Setup Mode	Α
Setting Minimum Brightness	В
Setting Maximum Brightness	С
Setting the Kick Start Feature	D
Setting Off State LED feature	E
Setting Separate Switch Mode	F
Setting The Memory Dimmer	G
Factory Default Reset	Н
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Once in Setup Mode, options are selected by a series of 'clicks' of the push button. Each 'click' should be approximately 1 second after the previous click.

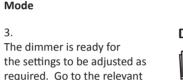
ENTERING SETUP MODE

If the dimmer has been powered up for LESS THAN 30 MINUTES see A1 below.

If the dimmer has been powered up for **MORE** THAN 30 MINUTES see A2 below.

Dimmer has been powered up via mains 240Va for LESS THAN 30 MINUTES

Note: connected lights will dim up or down, this is normal The white LED Indicators will blink ON/OFF with 1 second intervals. This indicates that



Dimmer Setup!

Push & Hold!

ON

LED Blinks



Dimmer has been powered up via mains 240Vac or MORE THAN 30 MINUTES

Push and hold the button for 30 seconds

setup function instructions

Note: This resets the Setup Entry time back to 10 seconds (for the next 30 minutes)

Note: Connected lights will dim up or down, this is normal

The white LED Indicators will blink ON/OFF with 1 second intervals. This indicates that the dimmer is now in Setup Mode

The dimmer is ready for the settings to be adjusted as required. Go to the relevant setup function instructions

Push & Hold!



ON

LED Blinks

Dimmer Setup!

The minimum brightness level provided by the dimmer

can be set to suit specific lamps and/or customer requirements.

B SETTING MINIMUM BRIGHTNESS

For the majority of lamps a minimum level as low as 0% can be set if required. However, some lamps can become unstable at low dimming levels, in particular

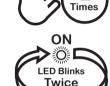
If lamps become unstable at low dimming levels, they typically flicker or pulse on/off. The dimmer allows the minimum brightness to be set to a level above the point at which the lamp flickers/pulses.

Enter into the dimmer **Setup** Mode - See PART A



Setup Mode!

Click the push button 2 times



LED will blink 2 times Note: To cancel/exit do

nothing for 10 seconds

brightness level

Push and hold the button to

adust to required MINIMUM



Click once to save & exit

Note: To cancel/exit do

nothing for 10 seconds



Please turn over for Setup PARTS C to H

his product is covered by a two-year warranty against manufacturing defects. This warranty is provided in addition to consumer guarantees covered by Australian Consumer Law









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SETTING MAXIMUM BRIGHTNESS

The maximum brightness level provided by the dimmer can be set to suit customer requirements.

Note that when lamps are dimmed near to full brightness, it is difficult to see changes in dimming level. Therefore, when setting up maximum brightness, it is recommended that the lamp is slowly dimmed up to a point where no further changes in brightness can be seen, and the maximum level set at this point.

Enter into the dimmer **Setup** Mode - See PART A



ON

LED Blinks

Three Times

Adjust!

Setup Mode!

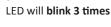
See

PART A

Times

3 times

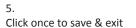
Click the push button



Note: To cancel/exit do nothing for 10 seconds

Push and hold the button adjust to required maximum brightness level

Note: To cancel/exit do nothing for 10 seconds





SETTING THE KICK START FEATURE

The 'kick-start' feature is only required to be enabled when dimming loads such as compact fluorescent lamps. These lamps require the dimmer output to be set to 50% for 0.2 of a second when the lamp is turned on. This ensures the lamp strikes successfully. The result is a short bright 'blink' when a compact florescent lamp turns on.

As the bright blink caused by the kick start feature can be undesirable for the user, it is highly recommended that this feature remains disabled (the default) when using LED's and other light sources which do not require the kick-start to operate.

By default Kick Start is Disabled. To Enable Kick Start Mode, follow the steps below.

Enter into the dimmer **Setup** Mode - See PART A



Setup Mode!

See

Click the push button 4 times



If Kick start is currently Enabled, lamp(s) connected to the dimmer will now turn ON

Adjust! To Enable Kick Start Mode Push and hold the button to adjust the level until the lamp(s) turn ON

To Disable Kick Start Mode (Default) Push and hold the button to adjust the level until the lamp(s) turn OFF



SETTING OFF STATE INDICATION

When the dimmer is switched off, the white LED indicators in the dimmer can be set to glow on or turn

By default, the white LED indicators are set to glow on when the dimmer is turned off. This can be useful as a nightlight.

To set the LED indicators to turn off when the dimmer is off, follow the steps below.

Enter into the dimmer Setup Mode - See PART A

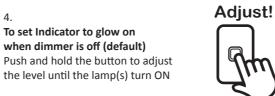


LED will blink 5 times

Click the push button

5 times

Note: To cancel/exit do nothing for 10 seconds



To set Indicator to turn off when when dimmer is off

Push and hold the button to adjust the level until the lamp(s) turn OFF

Click! Click once to save & exit

Setup Mode!



Enter into the dimmer Setup Mode - See PART A

ON

LED Blinks

Five Times

OFF

Click the push button 6 times

wall plate.

push button.

below.

LED will blink 6 times

Note: To cancel/exit do nothing for 10 seconds



To Enable Separate Switch Mode Push and hold the button to adjust the level until the lamp(s) turn ON *Note the level the lamp(s) are* adjusted to during this step will be the turn on level when the separate switch is used during normal operation

The dimmer is designed to operate as a combined

However, some lamps (for example, non-dimmable CFL's

can flicker when switched OFF by pressing the dimmer's

In these cases it is recommended that the dimmer is

used in 'Separate Switch Mode' and combined with a

When used in the Separate Switch Mode, the dimmer

turn-on level needs to be set. This is covered in step 4

two way switching operation is required.

standard mechanical switch. Note this also applies where

switch and dimmer, taking up only one gang in a

To Disable Separate Switch Mode Push and hold the button to adjust the level until the lamp(s) turn OFF (or pulses ON/OFF)

Click once to save & exit

Time

Note for Separate Switch Mode

- Clicking the push button will toggle between min and max level if the memory dimmer is disabled
- · Clicking the push button will toggle between min level and previous level if the memory dimmer is enabled
- 'Wake up' mode cannot be used
- LED indicators are off when the separate switch is off

• When the seperate switch is turned on, the lamps will always go to the level set in step 4 above

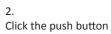
SETTING **SEPARATE SWITCH MODE** SETTING THE MEMORY DIMMER

The dimmer has the option to turn on at the brightness level set when the lights were turned off (memory dimmer), or to turn on at the maximum brightness level.

By default, the memory dimmer option is disabled. Then, by default, when the connected lights are off and the button is tapped, the lights will switch on at maximum brightness. However, pushing and holding the button when the connected lights are off will dim the lights up from the minimum level.

To enable or disable the memory dimmer function, follow the steps below. Setup Mode!

Enter into the dimmer **Setup** Mode - See PART A



7 times

LED will blink 7 times

If the memory dimmer function is **Disabled**, lamp(s) connected to the dimmer will now turn OFF

If the memory dimmer function is currently **Enabled**, lamps(s) connected to the dimmer will now turn ON

To Enable the memory dimmer Push and hold the button to adjust the level until the lamp(s) turn ON

To Disable the memory dimmer (Default)

Push and hold the button to adjust the level until the lamp(s) turn OFF

Click once to save & exit

RESETTING TO FACTORY DEFAULTS **Setup Mode!**

Enter into the dimmer **Setup** Mode - See PART A

Click the push button ten times



See PART A

LED Blinks

Seven Times

OFF

Adjust!

Click!

The dimmer will automatically exit Setup Mode





Setup Mode!

See

PART A

Times

Click! 6

ON

LED Blinks

Six Times

Adjust!













