

Setup Functions Guide

MMDM/PB

LEDsmart⁺

Push Button Dimmer with built in on / off switch and multi-way control



Dimmer Setup

The LEDsmart⁺ push button dimmer has a number of useful functions which can easily be set up by entering setup mode and following three easy steps.

It is recommended that the MINIMUM BRIGHTNESS is always set up. The other settings are optional, depending on the dimmer application. To set the minimum brightness now, go to the next page.

Dimmer Setup Functions

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Entering Setup Mode	A
Setting Minimum Brightness	B
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A: Entering Setup Mode

If the dimmer has been powered up for **LESS THAN 15 MINUTES** see **A1**.

If the dimmer has been powered up for **MORE THAN 15 MINUTES** see **A2**.



Once in Setup Mode, options are selected by a series of 'clicks' of the dimmer push button. Each 'click' should be within 1 second of the previous click.

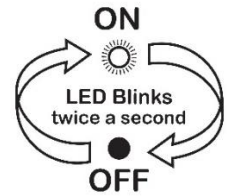
A1: Dimmer has been powered up via mains 240Vac for LESS THAN 15 MINUTES

Step 1 Press and hold the dimmer push button for 10 seconds
 Note: Connected lights will dim up or down, this is normal



Step 2 The white LED Indicators will blink ON/OFF twice per second. This indicates that the dimmer is now in Setup Mode

Note: If more than one LEDsmart+ device is connected in parallel, all these devices will now enter setup mode. The blink ON/OFF will also be seen on all other LEDsmart+ devices connected in parallel



In the unlikely event that other LEDsmart+ devices connected in parallel do not enter setup, exit and try again.

Step 3 The dimmer is ready for the settings to be adjusted as required. Go to the relevant setup function instructions



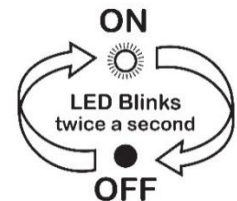
A2: Dimmer has been powered up via mains 240Vac for MORE THAN 15 MINUTES

Step 1 Press and hold the dimmer push button for 30 seconds
 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



Step 2 The white LED Indicators will blink ON/OFF with twice per second. This indicates that the dimmer is now in Setup Mode

Note: If more than one LEDsmart+ device is connected in parallel, all these devices will now enter setup mode. The blink ON/OFF will also be seen on all other LEDsmart+ devices connected in parallel.



In the unlikely event that other LEDsmart+ devices connected in parallel do not enter setup, exit and try again.

Step 3 The dimmer is ready for the settings to be adjusted as required. Go to the relevant setup function instructions



B: Setting Minimum Brightness

The minimum brightness level provided by the dimmer can be set to suit specific lamps and/or customer requirements.

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 CFL's.

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.

Step 1 Enter into the dimmer Setup Mode - See PART A

Setup Mode!



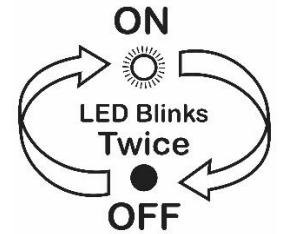
Step 2 Click the dimmer push button twice



Step 3 LED will blink 2 times

Note: To cancel/exit do nothing for 30 seconds

Note: If more than one dimmer is connected to the same load, all dimmers connected to this load will now blink 2 times

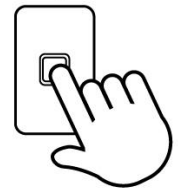


Step 4 Push and hold the button to adjust the required MINIMUM brightness level

Note: If more than one dimmer is connected in parallel, wait for 3 seconds for the other connected dimmer to learn the new minimum level

Note: To cancel/exit do nothing for 30 seconds

Adjust!



Step 5 Click once to save & exit

Note: If more than one LEDsmart⁺ device is connected in parallel, the minimum brightness levels **only needs to be set in one device**. The setting is automatically saved to all other devices connected in parallel



In the unlikely event that other LEDsmart+ devices connected in parallel do not enter setup, exit and try again.

C: 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.

Step 1 Enter into the dimmer Setup Mode - See PART A

Step 2 Click the push button 3 times

Step 3 LED will blink 3 times

Note: To cancel/exit do nothing for 30 seconds

Note: If more than one dimmer is connected to the same load, all dimmers connected to this load will now blink 3 times

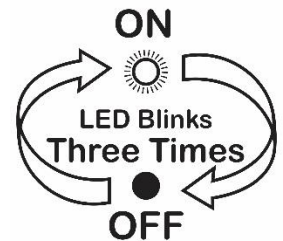
Step 4 Push and hold the button to adjust the required maximum brightness level

Note: To cancel/exit do nothing for 30 seconds

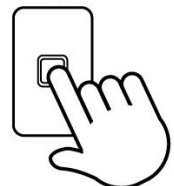
Step 5 Click once to save & exit

Note: If more than one LEDsmart⁺ device is connected in parallel, the minimum brightness levels **only needs to be set in one device**. The setting is automatically saved to all other devices connected in parallel

Setup Mode!



Adjust!



In the unlikely event that other LEDsmart+ devices connected in parallel do not enter setup, exit and try again.

D: 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.

Step 1 Enter into the dimmer Setup Mode - See PART A



Step 2 Click the push button 4 times



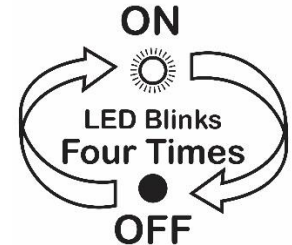
Step 3 LED will blink 4 times

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

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

Note: To cancel/exit do nothing for 30 seconds

Note: If more than one dimmer is connected to the same load, all dimmers connected to this load will now blink 4 times



Step 4 To Enable Kick Start Mode

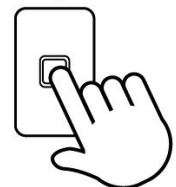
Push and hold the button to adjust the level until the lamp(s) turn ON

To Disable Kick Start Mode (Default)

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

Note: To cancel/exit do nothing for 30 seconds

Adjust!



Step 5 Click once to save & exit

Note: If more than one LEDsmart⁺ device is connected in parallel, the minimum brightness levels **only needs to be set in one device**. The setting is automatically saved to all other devices connected in parallel



In the unlikely event that other LEDsmart+ devices connected in parallel do not enter setup, exit and try again.

E: 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 off.

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.

Step 1 Enter into the dimmer Setup Mode - See PART A

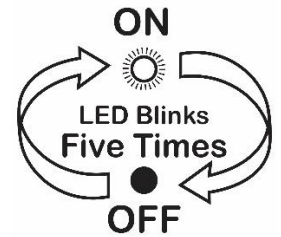


Step 2 Click the push button 5 times



Step 3 LED will blink 5 times

Note: To cancel/exit do nothing for 30 seconds

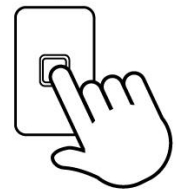


Step 4 To set Indicator to glow on when dimmer is off (default)
Push and hold the button to adjust the level until the lamp(s) turn ON

To set Indicator to turn off when dimmer is off
Push and hold the button to adjust the level until the lamp(s) turn OFF

Note: To cancel/exit do nothing for 30 seconds

Adjust!



Step 5 Click once to save & exit



F: Setting Separate Switch Mode

The dimmer is designed to operate as a combined switch and dimmer, taking up only one gang in a wall plate.

However, some lamps (for example, non-dimmable CFL's) can flicker when switched OFF by pressing the dimmer's push button.

In these cases it is recommended that the dimmer is used in 'Separate Switch Mode' and combined with a standard mechanical switch. Note this also applies where two way switching operation is required.

When used in the Separate Switch Mode, the dimmer turn-on level needs to be set. This is covered in step 4 below.

Step 1 Enter into the dimmer Setup Mode - See PART A

Setup Mode!

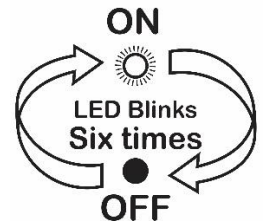


Step 2 Click the push button 6 times



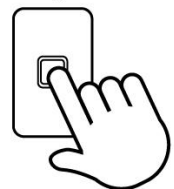
Step 3 LED will blink 6 times

Note: To cancel/exit do nothing for 30 seconds



Step 4 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

Adjust!



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

Note: To cancel/exit do nothing for 30 seconds

Step 5 Click once to save & exit



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

G: 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.

Step 1 Enter into the dimmer Setup Mode - See PART A

Setup Mode!



Step 2 Click the push button 7 times



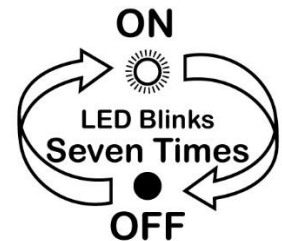
Step 3 LED will blink 7 times

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

Note: To cancel/exit do nothing for 30 seconds

Note: If more than one dimmer is connected to the same load, all dimmers connected to this load will now blink 7 times



Step 4 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

Note: To cancel/exit do nothing for 30 seconds

Adjust!



Step 5 Click once to save & exit

Note: If more than one LEDsmart⁺ device is connected in parallel, the minimum brightness levels **only needs to be set in one device**. The setting is automatically saved to all other devices connected in parallel



In the unlikely event that other LEDsmart⁺ devices connected in parallel do not enter setup, exit and try again.

H: Setting MultiMate™ Dimmer Mode

Step 1 Enter into the dimmer Setup Mode - See PART A

Setup Mode!

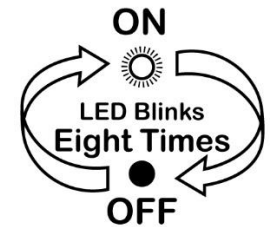


Step 2 Click the push button 8 times



Step 3 LED will blink 8 times

- a. If the MultiMate™ function is currently Disabled, lamp(s) connected to the dimmer will now turn OFF
- b. If the MultiMate™ function is currently Enabled, lamps(s) connected to the dimmer will now turn ON



Note: To cancel/exit do nothing for 30 seconds

Step 4 To Enable MultiMate™ (Default) push-and-hold the button until the lamp(s) turns ON
To Disable MultiMate™ push-and-hold the button until the lamp(s) turns OFF

Adjust!



Note: To cancel/exit do nothing for 30 seconds

Step 5 Click once to save & exit



I: Resetting to Factory Defaults

Step 1 Enter into the dimmer Setup Mode - See PART A

Setup Mode!



**See
PART A**

Step 2 Click the push button ten times



Step 3 The dimmer will automatically exit Setup Mode once reset



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