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Maestro C•L Fan/Light Control Advanced Programming Mode
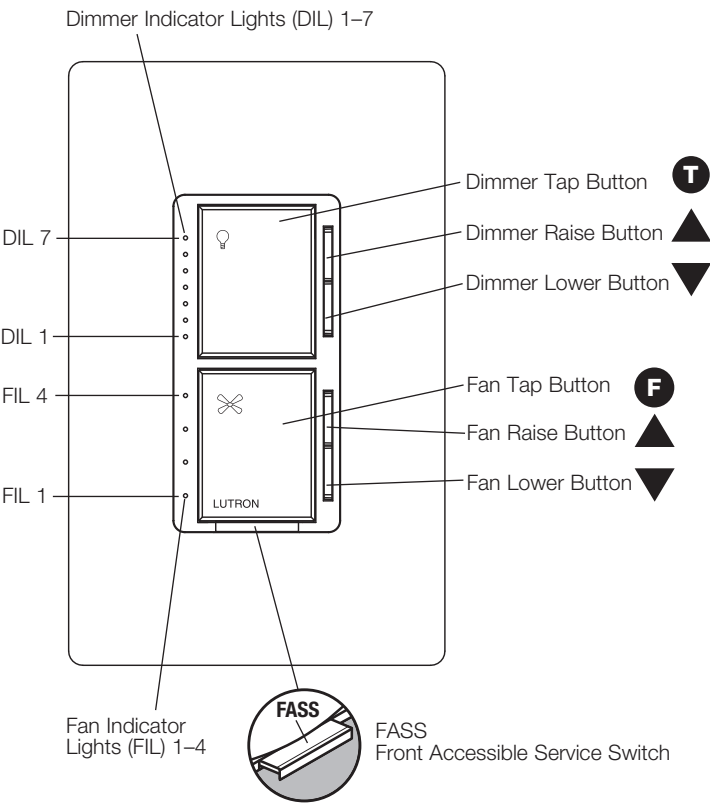
Maestro C•L Models

MACL-LFQ

Overview

The Maestro C•L fan/light control features an *Advanced Programming Mode* (*APM*) that allows the user to customize their control to meet their specific needs. This document serves as a supplement to the instruction sheet. Before entering *APM*, it is important to have a good understanding of the features included.

Dimmer

Dimmer Indicator Lights (DIL) 1–7

DIL 7

DIL 1

FIL 4

FIL 1

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Dimmer Tap Button **T**

Dimmer Raise Button ▲

Dimmer Lower Button ▼

Fan Tap Button **F**

Fan Raise Button ▲

Fan Lower Button ▼

Fan Indicator Lights (FIL) 1–4

FASS

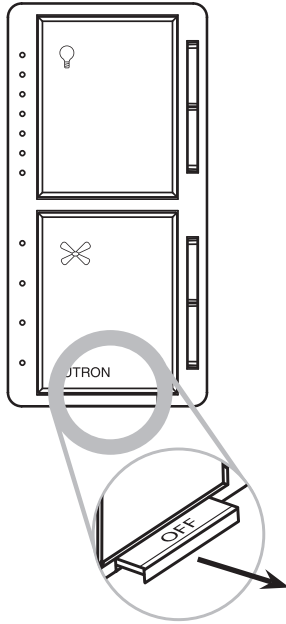FASS
Front Accessible Service Switch

Notes:
- To replace fixture bulb(s), power may be temporarily disconnected at the light fixture by pulling the FASS out.
- For any procedure other than routine bulb replacement, power MUST be disconnected at the main electrical panel.

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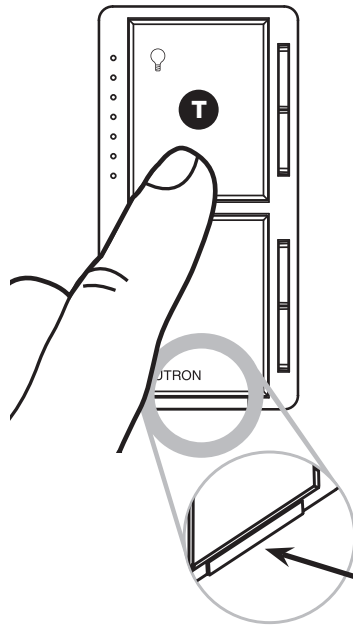
Customer Assistance: 1.844.LUTRON1

Glossary

Dimmer Load . . . . The light bulb(s) that the dimmer is controlling.

Fan Load . . . . The ceiling fan that the dimmer is controlling.

FASS . . . . Tab at bottom of the product, required to be pulled out for light bulb(s) replacement and entering *Advanced Programming Mode* (*APM*); also known as *Air Gap*.

Normal Operation . . . . Standard use of dimmers or fan controls (ON / OFF, Raise / Lower); indicator lights will not be blinking.

Slow Blink . . . . Indication of entering *APM*, dimmer indicator lights (DILs) or fan indicator lights (FILs) blink slowly at a rate of 4 flashes per second.

Fast Blink . . . . Indication of entering *Programming* settings, dimmer indicator lights (DILs) or fan indicator lights (FILs) blink quickly at a rate of 8 flashes per second.

Unlocked Preset . . . . A light level or fan speed setting that allows the device to turn ON to the last selected setting.

Locked Preset . . . . A programmable light level or fan speed setting to which the device will turn on to.

High-End Trim . . . . The highest achievable light level to which the device can be adjusted.

Low-End Trim . . . . The lowest achievable light level to which the device can be adjusted.

Default Setting . . . . Original preset programming settings to which the device is programmed upon initial use, indicated by ☀.

Factory Default . . . . Original preset programming settings set up as a starting point for users; also known as *Default Setting*.

How to Enter Advanced Programming Mode (APM)

1. **Pull** the *FASS* into the *OFF* position (out), and **wait** 5 seconds.

2. **Press and hold 🅣**. While **continuing to hold 🅣**, **push** the *FASS* to the *ON* position (in) and **continue to hold 🅣** for approximately 5 seconds.
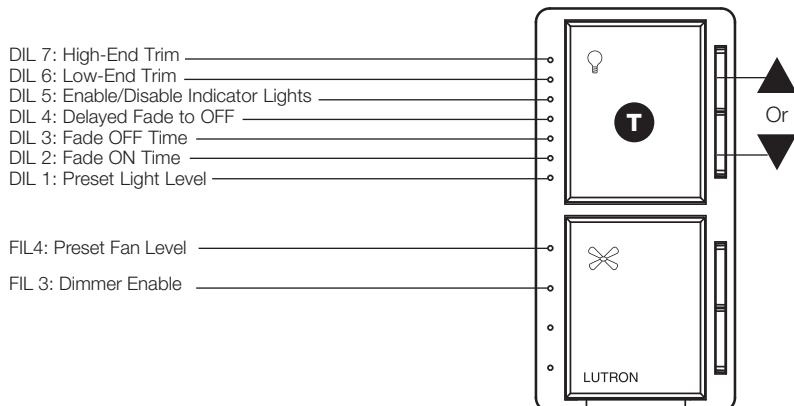
3. Once the bottom dimmer indicator light (DIL 1) begins to slowly blink indicating that you have entered *Advanced Programming Mode (APM)*, **release 🅣**.

Note:
• If there is no button activity for 1 minute, the dimmer will automatically exit *APM* and return to *Normal Operation*.

How to Enter a Programming Setting

1. While in *Advanced Programming Mode (APM)* as shown on page 3, **press ▲** or **▼ to select** the desired programming setting. The slow blinking DIL or FIL will indicate which setting you have selected.

DIL 7: High-End Trim
DIL 6: Low-End Trim
DIL 5: Enable/Disable Indicator Lights
DIL 4: Delayed Fade to OFF
DIL 3: Fade OFF Time
DIL 2: Fade ON Time
DIL 1: Preset Light Level

FIL4: Preset Fan Level

FIL 3: Dimmer Enable

Or

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2. **To enter** the desired setting, **press ①**. Proceed to the specific programming setting page to view programming instructions for the desired setting.

Note:
• If there is no button activity for 1 minute, the device will automatically exit *APM* and return to *Normal Operation*.

APM Programming Settings

Setting 1: Switch Enable/Dimmer Enable
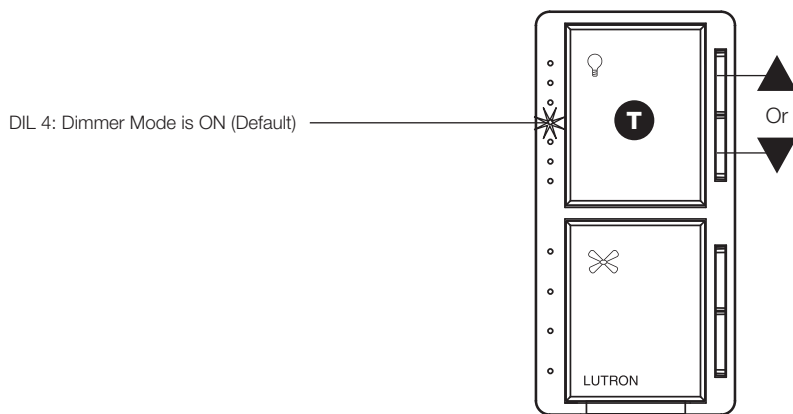
What Does It Do?

Dimmer Enable is ON when DIL 4 is blinking rapidly and *Switch Enable* is ON when the DIL 4 is OFF. When Dimmer Enable is ON, the ▲ or ▼ buttons can be used to vary the light level. When Switch Enable is ON, the light level can only be fully on or fully off.

Default setting: ON (DIL 4).

Directions

Enable/Disable Dimmer

1. While in *APM*, **press** ▲ or ▼ **to select** Fan Indicator Light 3 (FIL3). Once FIL3 is blinking, **press** 🅣. FIL3 will then turn off and Dimmer Indicator Light 4 (DIL4) will begin to blink rapidly or remain OFF, indicating that the setting has been entered.

2. Once DIL4 begins blinking rapidly or turns OFF, **press** ▲ or ▼ to enable/disable the dimmer mode.

3. **To save** the desired *Switch/Dimmer Enable* mode, **press** 🅣. This will exit out of Setting 1 and return to *APM* main menu.

DIL 4: Dimmer Mode is ON (Default) ——————

Or

Notes:
- If there is no button activity for 1 minute, the dimmer will automatically exit *APM* and return to *Normal Operation*.
- **To save and exit immediately** out of *APM* to *Normal Operation*, **press and hold** 🅣 until the DILs stop blinking.

APM Programming Settings (continued)

Setting 2: Preset Fan Level

What Does It Do?

There are 2 settings available.

Locked Preset: Tap **F** once to turn fan on to a predetermined speed.

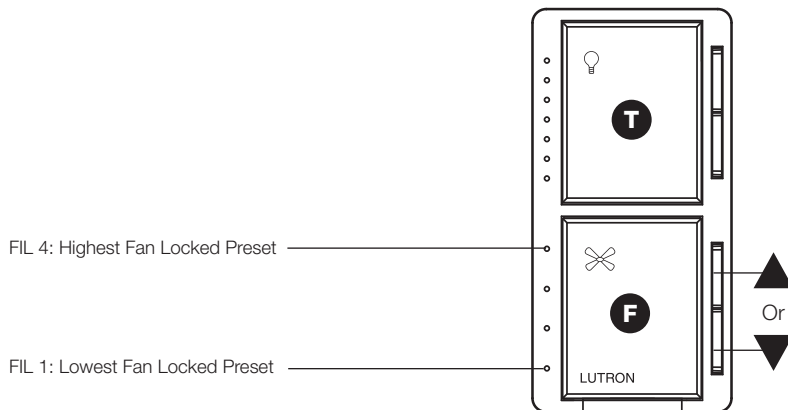Unlocked Preset: The fan will turn on to the previous speed.

Default setting: *Unlocked Preset*.

Directions

Selecting Locked Preset

1. While in *APM*, **press** ▲ or ▼ **to select** Fan Indicator Light 4 (FIL4). Once FIL4 is blinking, **press** **T**. The DIL corresponding to the currently stored *Preset Fan Level* will begin to blink rapidly or all lights will turn off, indicated that *Unlocked Preset* is selected.

2. When entering Setting 2 for the first time after installing, the default setting is "Unlocked."

   Note: *Unlocked Preset* is indicated by no FILs turned ON. Press ▲ or ▼ to choose desired fan speed.

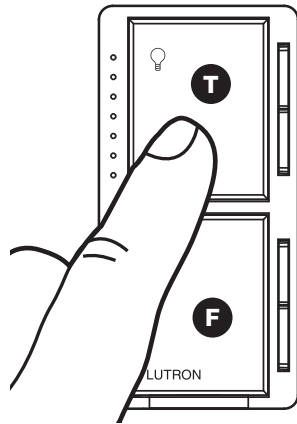FIL 4: Highest Fan Locked Preset

FIL 1: Lowest Fan Locked Preset

Or

Notes:
- If there is no button activity for 1 minute, the dimmer will automatically exit *APM* and return to *Normal Operation*.
- **To save and exit immediately** out of *APM* to *Normal Operation*, **press and hold** **T** until the DILs stop blinking.

APM Programming Settings (continued)
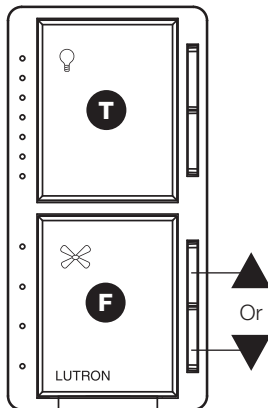
Setting 2: Preset Fan Level (continued)

3. **To save** the desired fan speed, **press** **T**. This will immediately exit out of Setting 2 and return to *APM* main menu.

Your default fan speed setting has now been redefined. A **single tap** of **F** (when in *Normal Operation*, not *APM*) will now always return the fan to this selected speed setting until preset is deactivated or reset.

Selecting Unlocked Preset

1. **To deactivate** a *Locked Preset* setting, **repeatedly press** ▼ until all Fan Indicator Lights turn OFF.
2. **To save** the *Unlocked Preset*, **press** **T**. This will immediately exit out of Setting 1 and return to *APM* main menu.

Notes:
- If there is no button activity for 1 minute, the dimmer will automatically exit *APM* and return to *Normal Operation*.
- **To save and exit immediately** out of *APM* to *Normal Operation*, **press and hold** **T** until the DILs stop blinking.

APM Programming Settings (continued)

Setting 3: Preset Light Level

What Does It Do?

There are 2 settings available.

Locked Preset: Tap **T** once to turn light on to a predetermined level.

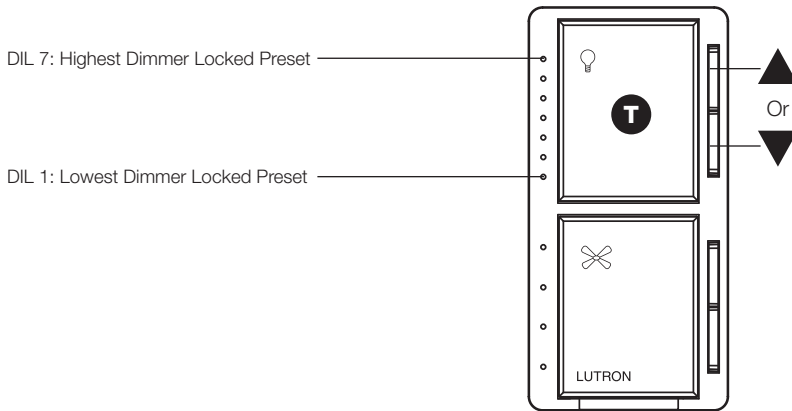Unlocked Preset: The light will turn on to the previous level.

Default setting: *Unlocked Preset*.

Directions

Selecting Locked Preset

1. While in *APM*, **press ▲ or ▼ to select** Dimmer Indicator Light 1 (DIL1). Once DIL1 is blinking, **press T**. The DIL corresponding to the currently stored *Locked Preset* will begin to blink rapidly or all lights will turn off, indicated that *Unlocked Preset* is selected.

2. When entering Setting 3 for the first time after installing, the default setting is "Unlocked."

   Note: *Unlocked Preset* is indicated by no Indicator Lights turned ON. **Press ▲ or ▼** to choose desired light intensity. The light will brighten or dim, reflecting the *Locked Preset* level as the this feature is adjusted.

DIL 7: Highest Dimmer Locked Preset

Or

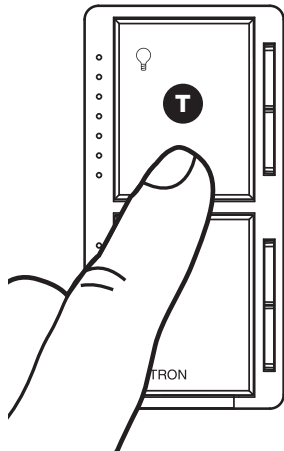DIL 1: Lowest Dimmer Locked Preset

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Notes:
- If there is no button activity for 1 minute, the dimmer will automatically exit *APM* and return to *Normal Operation*.
- **To save and exit immediately** out of *APM* to *Normal Operation*, **press and hold T** until the DILs stop blinking.

APM Programming Settings (continued)

Setting 3: Preset Light Level (continued)

3. **To save** the desired light intensity, **press** **T**. This will immediately exit out of Setting 3 and return to *APM* main menu.
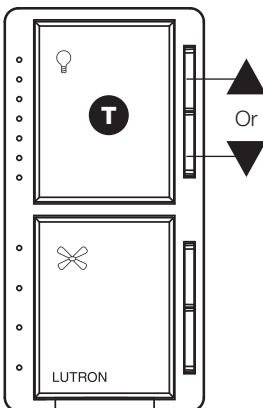

Your default light setting has now been redefined. A **single tap** of **T** (when in *Normal Operation*, not *APM*) will now always return the dimmer to this selected light setting until preset is deactivated or reset. A **double tap** will always bring the lights to full intensity.

Selecting Unlocked Preset

1. **To deactivate** a *Locked Preset* setting, **press** ▼ until DIL1 is quickly flashing. Release ▼ and **press and hold** ▼ again for approximately 3 seconds or until all Indicator Lights turn OFF.

   Note: The light will remain at its minimum output when you perform this action.

2. **To save** the *Unlocked Preset*, **press** **T**. This will immediately exit out of Setting 3 and return to *APM* main menu.

Notes:
- If there is no button activity for 1 minute, the dimmer will automatically exit *APM* and return to *Normal Operation*.
- **To save and exit immediately** out of *APM* to *Normal Operation*, **press and hold** **T** until ILs stop blinking.

APM Programming Settings (continued)

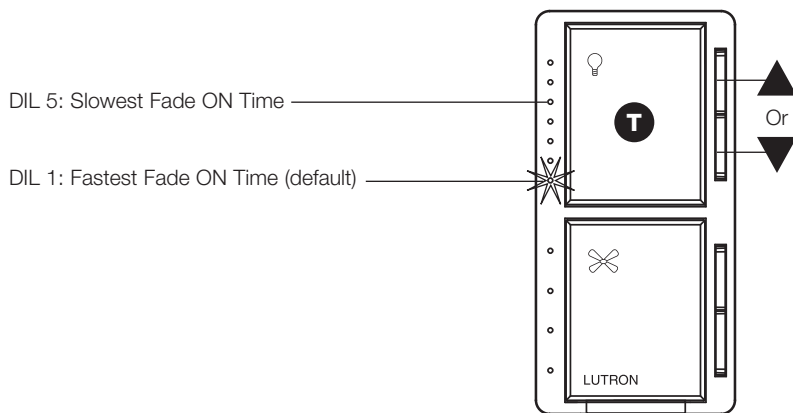## Setting 4: Fade ON Time

What Does It Do?
This setting allows control over how quickly the lights will fade up when the dimmer is turned ON. These settings include fade times from OFF to a maximum light output as quickly as 0.75 seconds and as slowly as 15 seconds.

Default setting: 0.75 seconds (DIL1).

Directions

Selecting a Fade ON Time
1. While in *APM*, **press** ▲ or ▼ **to select** Dimmer Indicator Light 2 (DIL2). Once DIL2 is blinking, **press** 🅣. The DIL corresponding to the currently stored *Fade ON Time* will begin to blink rapidly, indicating that the setting has been entered.
2. Upon entering Setting 4, **press** ▲ or ▼ **to select** the desired *Fade ON Time*. DILs 1–5 represent the different *Fade ON Time* settings. Refer to the table below to determine which time is best suited to your needs.
3. **To save** the desired *Fade ON Time*, **press** 🅣. This will exit out of Setting 4 and return to *APM* main menu.

DIL 5: Slowest Fade ON Time

DIL 1: Fastest Fade ON Time (default)

Or

DIL Position	Fade ON Time*
5	15 seconds
4	5 seconds
3	3 seconds
2	2.5 seconds
1	0.75 seconds (default)

* Time from OFF to maximum light level.

Notes:
- The fade time while using ▲ or ▼ during normal operation is not affected by any *Fade ON time* modification. These speeds are constant.
- If there is no button activity for 1 minute, the dimmer will automatically exit *APM* and return to *Normal Operation*.
- **To save and exit immediately** out of *APM* to *Normal Operation*, **press and hold** 🅣 until DILs stop blinking.

APM Programming Settings (continued)

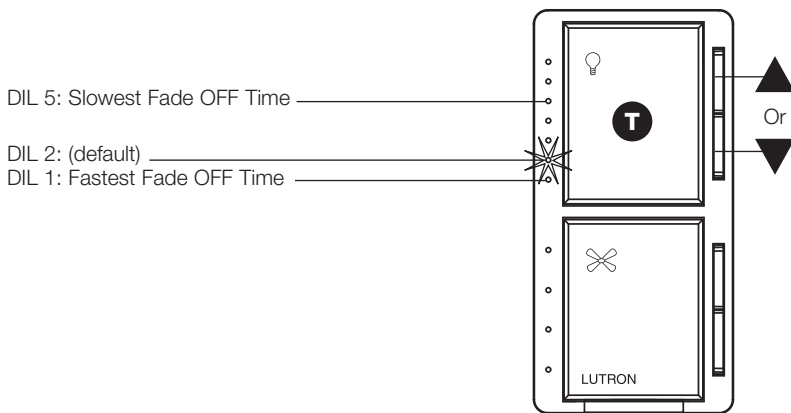## Setting 5: Fade OFF Time

What Does It Do?
This setting allows control over how quickly the lights will fade down when the dimmer is turned OFF. These settings include fade times from a maximum light output to OFF as quickly as 0.75 seconds and as slowly as 15 seconds.

Default setting: 2.5 seconds (DIL2).

Directions

Selecting a Fade OFF Time

1. While in *APM*, **press** ▲ or ▼ **to select** Dimmer Indicator Light 3 (DIL3). Once DIL3 is blinking, **press** 🅣. DIL3 will turn off and the DIL corresponding to the currently stored delayed *Fade OFF Time* will begin to blink rapidly, indicating that the setting has been entered.

2. Upon entering Setting 5, **press** ▲ or ▼ **to select** the desired *Fade OFF Time*. DILs 1–5 represent the different *Fade OFF Time* settings. Refer to the table below to determine which time is best suited to your needs.

3. **To save** the desired *Fade OFF Time*, **press** 🅣. This will exit out of Setting 5 and return to *APM* main menu.

DIL 5: Slowest Fade OFF Time

DIL 2: (default)
DIL 1: Fastest Fade OFF Time

Or

DIL Position	Fade OFF Time*
5	15 seconds
4	5 seconds
3	3 seconds
2	2.5 seconds (default)
1	0.75 seconds

* Time from maximum light level to OFF.

Notes:
- The fade time while using ▲ or ▼ during normal operation is not affected by any *Fade OFF* time modification. These speeds are constant.
- If there is no button activity for 1 minute, the dimmer will automatically exit *APM* and return to *Normal Operation*.
- **To save and exit immediately** out of *APM* to *Normal Operation*, **press and hold** 🅣 until ILs stop blinking.

APM Programming Settings (continued)

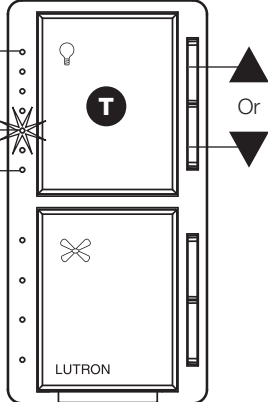## Setting 6: Delayed Fade to OFF

What Does It Do?
This setting allows control over how quickly/delayed the lights begin to start the dimming sequence. This setting delays the time between when **T** is pressed (*Normal Operation*) and when the lights actually begin the *Fade to OFF* process.

Default setting: 30 seconds (DIL3).

Directions

Setting Delayed Fade to OFF

1. While in *APM*, **press ▲** or **▼** to select Dimmer Indicator Light 4 (DIL4). Once DIL4 is blinking, **press T**. DIL4 will turn off and Dimmer Indicator Light 3 (DIL3) will begin to blink rapidly or remain OFF, indicating that the setting has been entered.

2. Upon entering Setting 6, **press ▲** or **▼ to select** the desired *Delayed Fade to OFF* time. DILs 1–7 represent the different *Delayed Fade to OFF* times. Refer to the table below to determine which time is best suited to your needs.

3. **To save** the desired *Delayed Fade to OFF*, **press T**. This will exit out of Setting 6 and return to *APM* main menu.

4. To use this feature in *Normal Operation*, while the light is ON, **press and hold T** for 2 seconds and **release**. The *Delayed Fade to OFF* will then initiate.

DIL 7: Slowest Delayed Fade to OFF

DIL 3: (default)

DIL 1: Fastest Delayed Fade to OFF

Or

DIL Position	Delayed Fade to OFF
7	70 seconds
6	60 seconds
5	50 seconds
4	40 seconds
3	30 seconds (default)
2	20 seconds
1	10 seconds

Notes:
- If there is no button activity for 1 minute, the dimmer will automatically exit *APM* and return to *Normal Operation*.
- **To save and exit immediately** out of *APM* to *Normal Operation*, **press and hold T** until ILs stop blinking.

APM Programming Settings (continued)

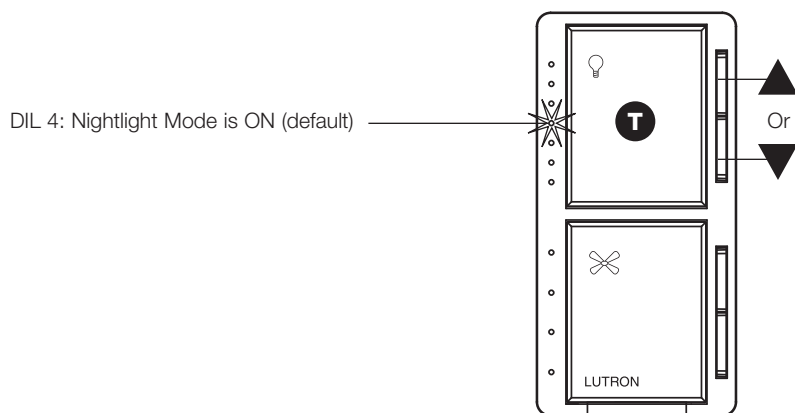## Setting 7: Enable/Disable Indicator Lights

What Does It Do?
Enable/Disable Indicator Lights allows enabling/disabling of the DILs and FILs when the dimmer is turned OFF.

Default setting: Indicator Lights (nightlight mode): ON (DIL4).

Directions

Enable/Disable Indicator Lights

1. While in *APM*, **press ▲** or **▼** to select Dimmer Indicator Light 5 (DIL5). Once DIL5 is blinking, **press 🅣**. DIL5 will turn off and Dimmer Indicator Light 4 (DIL4) will begin to blink rapidly or remain OFF, indicating that the setting has been entered.

2. Upon entering Setting 7, **press ▲** or **▼ to enable/disable** the nightlight mode (ON/OFF.)

   Note: When pressing any option other than DIL 4, all other DILs will remain OFF. This represents the *Disabled* setting.

3. **To save** the desired *Enable/Disable Indicator Lights* setting, **press 🅣**. This will exit out of Setting 7 and return to *APM* main menu.

DIL 4: Nightlight Mode is ON (default)

Or

Notes:
- It may be necessary to *Disable the Indicator Lights* (nightlight mode) when using certain CFL and LED bulbs to achieve best bulb performance.
- If there is no button activity for 1 minute, the dimmer will automatically exit *APM* and return to *Normal Operation*.
- **To save and exit immediately** out of *APM* to *Normal Operation*, **press and hold 🅣** until DILs stop blinking.

APM Programming Settings (continued)

Setting 8: Low-End Trim

What Does It Do?
This setting changes the lowest dimmer light level to obtain best bulb performance.
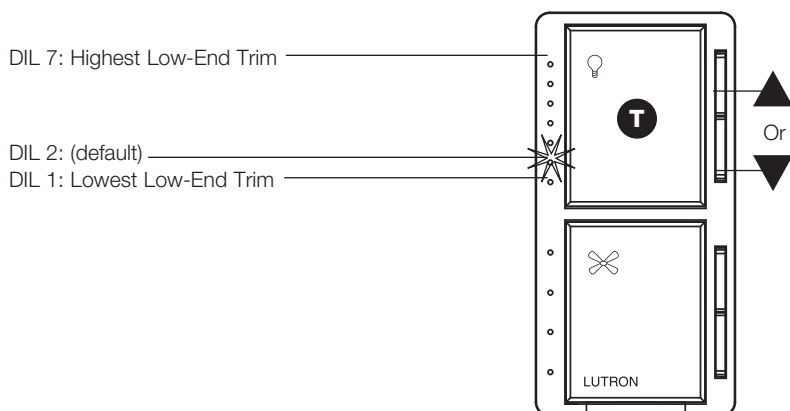
Default setting: DIL2

Directions

Setting Low-End Trim

1. While in *APM*, **press** ▲ or ▼ to select Dimmer Indicator Light 6 (DIL6). Once DIL6 is blinking, **press** 🅣. DIL6 will turn off and the DIL corresponding to the currently stored *Low-End Trim* level will begin to blink rapidly, indicating that the setting has been entered.

2. Upon entering Setting 8, **press** ▲ or ▼ **to select** the desired *Low-End Trim* level.

   Note: While setting the *Low-End Trim*, it is advised that the programmer observe the actual light (load) and not the DILs on the dimmer to determine the optimum setting. Incremental levels of light intensity exist between each DIL setting and the programmer may have to **press** ▲ or ▼ several times to proceed to the next highest/lowest setting.

3. **To save** the desired *Low-End Trim* setting, **press** 🅣. This will exit out of Setting 8 and return to *APM* main menu.

DIL 7: Highest Low-End Trim

DIL 2: (default)
DIL 1: Lowest Low-End Trim

Or

Notes:
- *Low-End Trim* adjustment is required for LEDs and CFLs; if not performed, the life of the LED/CFL bulb may be reduced.
- A quick method to adjust low-end trim is explained on page 16.
- If there is no button activity for 1 minute, the dimmer will automatically exit *APM* and return to *Normal Operation*.
- **To save and exit immediately** out of *APM* to *Normal Operation*, **press and hold** 🅣 until DILs stop blinking.

APM Programming Settings (continued)

Setting 9: High-End Trim

What Does It Do?
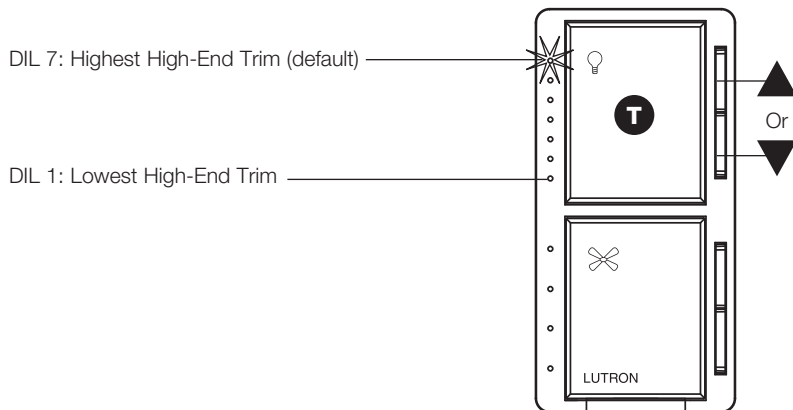This setting changes the highest achievable light levels.

Default setting: DIL7

Directions

Setting High-End Trim

1. While in *APM*, **press** ▲ or ▼ to select Dimmer Indicator Light 7 (DIL7). Once DIL7 is blinking, **press** 🅣. The DIL corresponding to the currently stored *High-End Trim* level will begin to blink rapidly, indicating that the setting has been entered.

2. Upon entering Setting 9, **press** ▲ or ▼ **to select** the desired *High-End Trim* level.

   Note: While setting the *High-End Trim*, it is advised that the programmer observe the actual light (load) and not the DILs on the dimmer to determine the optimum setting. Incremental levels of light intensity exist between each DIL setting and the programmer may have to **press** ▲ or ▼ several times before the next DIL will illuminate.

3. **To save** the desired *High-End Trim* setting, **press** 🅣. This will exit out of Setting 9 and return to *APM* main menu.

DIL 7: Highest High-End Trim (default)

DIL 1: Lowest High-End Trim
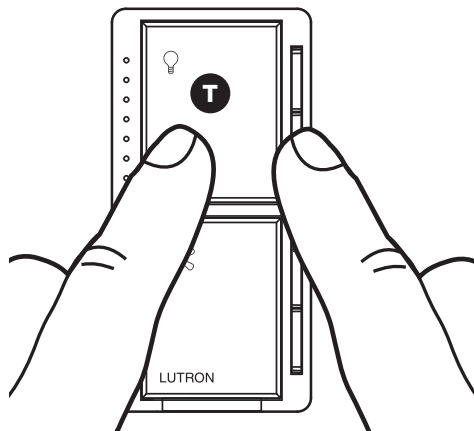
Or

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Notes:
- If there is no button activity for 1 minute, the dimmer will automatically exit *APM* and return to *Normal Operation*.
- **To save and exit immediately** out of *APM* to *Normal Operation*, **press and hold** 🅣 until DILs stop blinking.
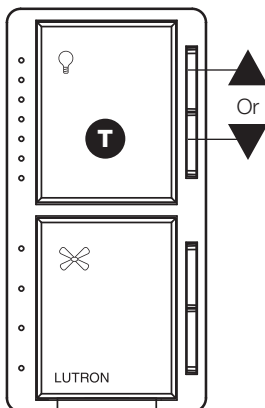
Shortcuts and Additional Features

Low-End Trim Shortcut (Entry into *APM* is not required)

For quick changes to the *Low-End Trim*, a shortcut method has been created that bypasses the *APM*.

1. **Press and hold** 🅣 and ▼ until a DIL blinks. The load will turn OFF and then turn ON to *Low-End*.

2. **Press** ▲ or ▼ to adjust light output until stable and not flickering. **Press and release** 🅣 **to save** setting.
3. **Press and release** 🅣 to turn load OFF, then **press** ▲ **once**. If load does not turn ON or remains unstable, **repeat** Steps 1-3, increasing light with ▲ until the light turns on and remains stable.
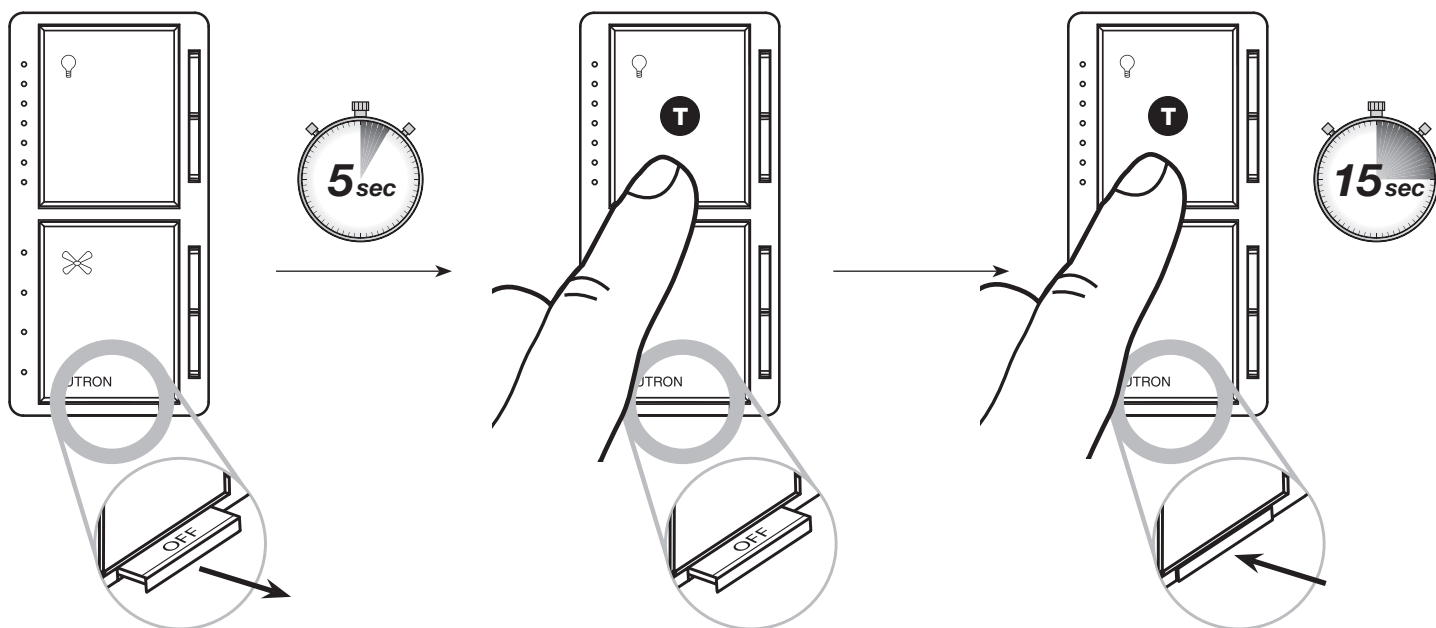
Shortcuts and Additional Features (continued)

Restoring Default Settings

The dimmer can be returned to its original factory settings. This allows the programmer a risk-free experience to try different settings.

Default settings

Enable/Disable Dimmer . . . . ON
Preset Fan Level . . . . Unlock Preset (all FILs turned OFF)
Preset Light Level . . . . Unlocked Preset (all DILs turned OFF)
Fade ON Time . . . . 0.75 seconds
Fade OFF Time . . . . 2.5 seconds
Delayed Fade to OFF . . . . 30 seconds
Enable/Disable Indicator Lights . . . . ON
Low-End Trim . . . . DIL 2
High-End Trim . . . . DIL 7 (highest level)
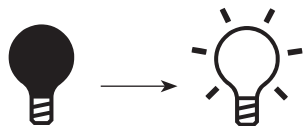
To Restore Factory Defaults

1. **Pull** the *FASS* into the OFF position (out), and **wait** 5 seconds.

2. **Press and hold** ⓣ. While continuing to hold ⓣ, **push** the *FASS* to the ON Position (in) and **continue to hold** ⓣ for approximately 15 seconds.

   Note: The dimmer will enter *APM*; **continue to hold** ⓣ for the remainder of the 15 seconds.

3. Load (light) will turn OFF and turn back ON to full intensity. This indicates a successful factory reset.

Note:
• If you perform the factory reset sequence, you will lose your selected *APM* settings and may need to adjust low-end trim settings to accommodate your particular bulbs.

Lutron Contact Numbers

WORLD HEADQUARTERS
USA
Lutron Electronics Co., Inc.
7200 Suter Road
Coopersburg, PA 18036-1299
TEL: +1.610.282.3800
FAX: +1.610.282.1243

support@lutron.com
www.lutron.com/support

**North and South America
Customer Assistance**
USA, Canada, Caribbean:
1.844.LUTRON1
Mexico:
+1.888.235.2910
Central/South America:
+1.610.282.6701

EUROPEAN HEADQUARTERS
United Kingdom
Lutron EA Limited
125 Finsbury Pavement
4th floor, London EC2A 1NQ
United Kingdom (Importer)
TEL: +44.(0)20.7702.0657
FAX: +44.(0)20.7480.6899
FREEPHONE (UK): 0800.282.107
Technical Support: +44.(0)20.7680.4481

lutronlondon@lutron.com

ASIAN HEADQUARTERS
Singapore
Lutron GL Ltd.
390 Havelock Road
#07-04 King's Centre
Singapore 169662
TEL: +65.6220.4666
FAX: +65.6220.4333
Technical Support: 800.120.4491

lutronsea@lutron.com

Asia Technical Hotlines
Northern China: 10.800.712.1536
Southern China: 10.800.120.1536
Hong Kong: 800.901.849
Indonesia: 001.803.011.3994
Japan: +81.3.5575.8411
Macau: 0800.401
Taiwan: 00.801.137.737
Thailand: 001.800.120.665853
Other Countries: +65.6220.4666