Antumbra

Commissioning Guide

Version 3.0

PHILIPS

dynalite

Contents

About this Guide

Overview

This guide is designed to assist in the configuration of Philips Dynalite Antumbra panels.

A working knowledge of EnvisionProject and Dynalite commissioning processes is required to effectively use this document.

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1 Product Overview

The Philips Dynalite Antumbra Panel series is a unique and stylish range of user interfaces, combining contemporary design with superior functionality to enable intuitive control of lighting, HVAC and other connected devices and systems.

The Antumbra Panel series is one of the most flexible user interface solutions available in the market. Advanced flexibility is achieved by dividing the panel into two components; the Application Module, which contains the panel's buttons and sensors, and the DyNet Communication Module, which handles all onboard logic and network communication.
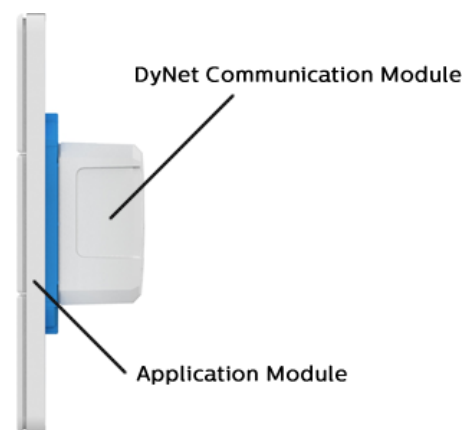
The Antumbra Panel series has been designed to suit both residential and commercial applications. The series consists of the following panel variants in both European (square) and US/Australian (rectangular) styles:

AntumbraButton   AntumbraDisplay   AntumbraTouch

Each button on the Antumbra panel can be configured using the EnvisionProject commissioning software to perform a vast range of functions.

In addition to its six buttons, the Antumbra panel contains three sensors:

Proximity sensor
The Proximity sensor utilizes capacitive field effect technology to detect motion. When a user approaches the panel, it initiates a wall-wash lighting effect to encourage interaction.

Ambient light sensor
An internal light sensor measures ambient light to adjust lightwash effect accordingly.

Temperature sensor
The temperature sensor is used to monitor the temperature of the room where the panel is mounted.

2   Adding a Panel to EP

Add the Antumbra Panel to your project using one of the following two methods:

Load the device from network

Insert the device from list

The following panels are listed in EP:

AntumbraButton:
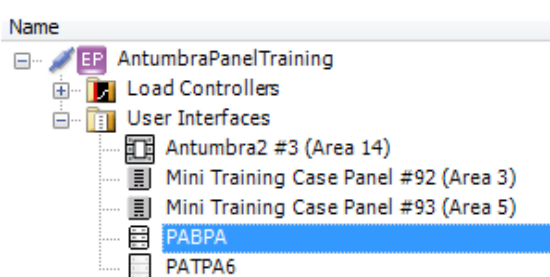- o PABPA – American/Australian style
- o PABPE – European style

AntumbraDisplay:
- o PADPA – American/Australian style
- o PADPE – European style

AntumbraTouch:
- o PATPA6 – American/Australian style
- o PATPE6 – European style

Once a panel has been added to the project, it is displayed in the Network View and Physical View tabs.

When the Antumbra Panel is selected, you can access the common device functions from the Network/Physical tool bar menu or by right-clicking the name of the panel to open the Context menu.

Communication modules can be pre-commissioned prior to having an application module attached, in which case they are identified by EP as "Antumbra2" devices. Once an application module is connected, the communication module will identify as the correct panel type. At this point it must be rediscovered by EP, but will retain all previously configured settings. This allows commissioning to take place as soon as communication modules are wired to the DyNet network.

3   Device Properties

The Device Properties page displays information about the selected Antumbra Panel.
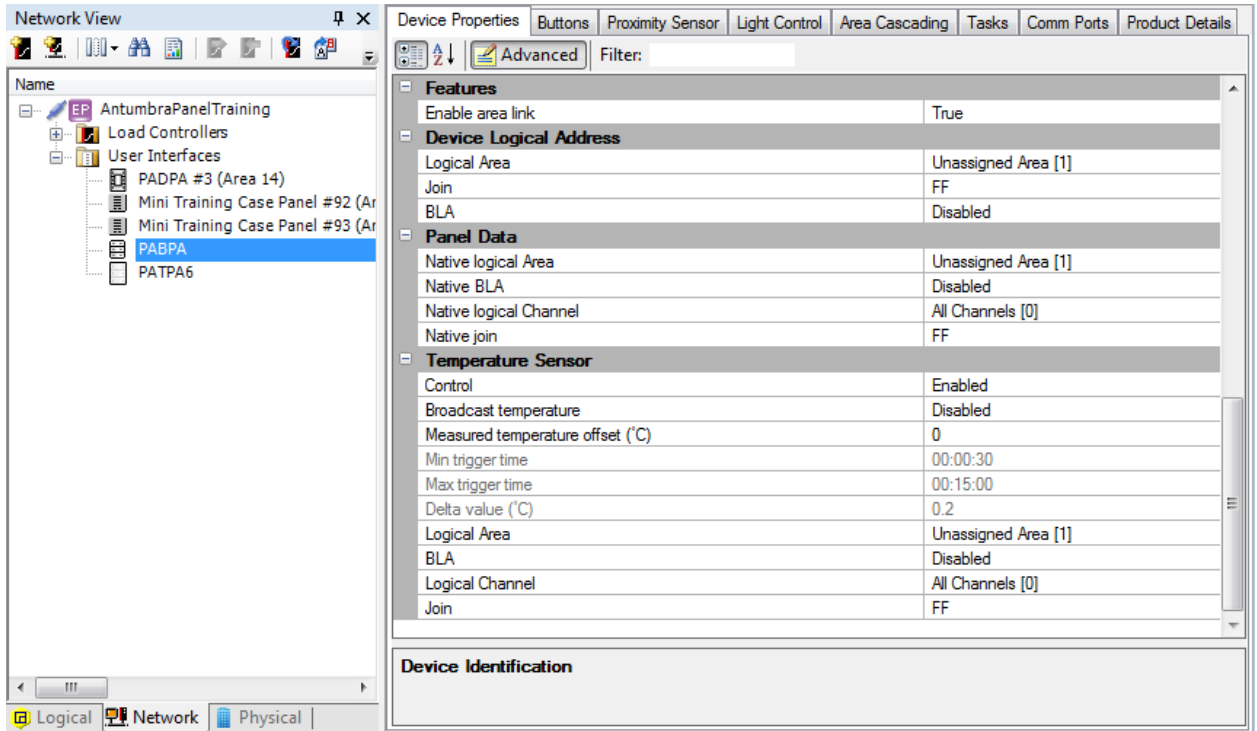
Displayed fields can be sorted in one of two ways by using the following buttons:

 Categorized

 Alphabetical

Initially only the basic fields are shown. To reveal all fields, click the Advanced button. The list can be filtered by entering all or part of a property name in the Filter box.

Standard properties are shown **like this**, while advanced properties are shown *like this*.

3.1 All Panels

The following Device Properties fields are common to all Antumbra panels.

Only Antumbra-specific properties are shown below. For more information on general device properties, please refer to the EnvisionProject Training Guide.

3.1.1 Temperature Parameters

Property	Description
Unit	The default unit for the panel - select Celsius (°C) or Fahrenheit (°F).
Minimum temperature setpoint	The lowest temperature that can be selected.
Maximum temperature setpoint	The highest temperature that can be selected.

3.1.2 Panel Data

Property	Description
Native Logical Area	Logical Area where the panel is located. This area will be selected by default for all button functions unless otherwise configured in the button settings.
Native BLA	The Base Link Area, Logical Channel and Native Join are advanced settings used for remote and automated panel control. Please do not adjust these settings unless advised to do so by Philips Dynalite.
Logical Channel	
Native Join	

The following additional settings are shown for the AntumbraDisplay:

Page Controller Logical Area	
Page Controller BLA	Please do not adjust these settings unless advised to do so by Philips Dynalite.
Page Controller Channel	
Page Controller Join	

3.1.3   Temperature Sensor

Property	Description
Control	Enable/disable temperature sensor
Broadcast temperature	If enabled, the panel periodically broadcasts temperature to the network.
Measured temperature offset	Adjusts the broadcast temperature by the positive or negative figure shown here.
Min trigger time	The time the panel has to wait between each broadcast, even if temperature change is greater than Delta Value. This is to prevent frequent broadcast of temperature over the network.
Max trigger time	The maximum between broadcasts, even if the temperature change is less the defined Delta Value.
Delta value (°C)	If the temperature changes by more than the figure specified here, AND more time that the Min trigger time has elapsed, the current temperature will be broadcast.
Logical Area	
BLA	Please do not adjust these settings unless advised to do so by Philips Dynalite.
Logical Channel	
Join	

3.2 Antumbra Touch

The following additional fields are specific to Antumbra Touch panels:

3.2.1 Buzzer

Property	Description
Control	Enable/disable buzzer
Logical Area	
BLA	Please do not adjust these settings unless advised to do so by Philips Dynalite.
Logical Channel	
Join	
Active presets	True - Buzzer is only active if the current preset is in the Min/Max range. False - Buzzer is only active if the current preset is outside the Min/Max range.
Min preset	1-255 (if 'undefined', buzzer will not function)
Max preset	1-255 (if 'undefined', buzzer will not function)

3.3 Antumbra Display

3.3.1 Panel Data

Property	Description
Page controller logical Area	
Page controller BLA	
Page controller logical Channel	Please do not adjust these settings unless advised to do so by Philips Dynalite.
Page controller join	

4 Display and Buttons

4.1 Buttons Editor

The Buttons page controls the function and behavior of each button. Selecting a button enables you to specify the button functions and the type of press/release action that will trigger each function
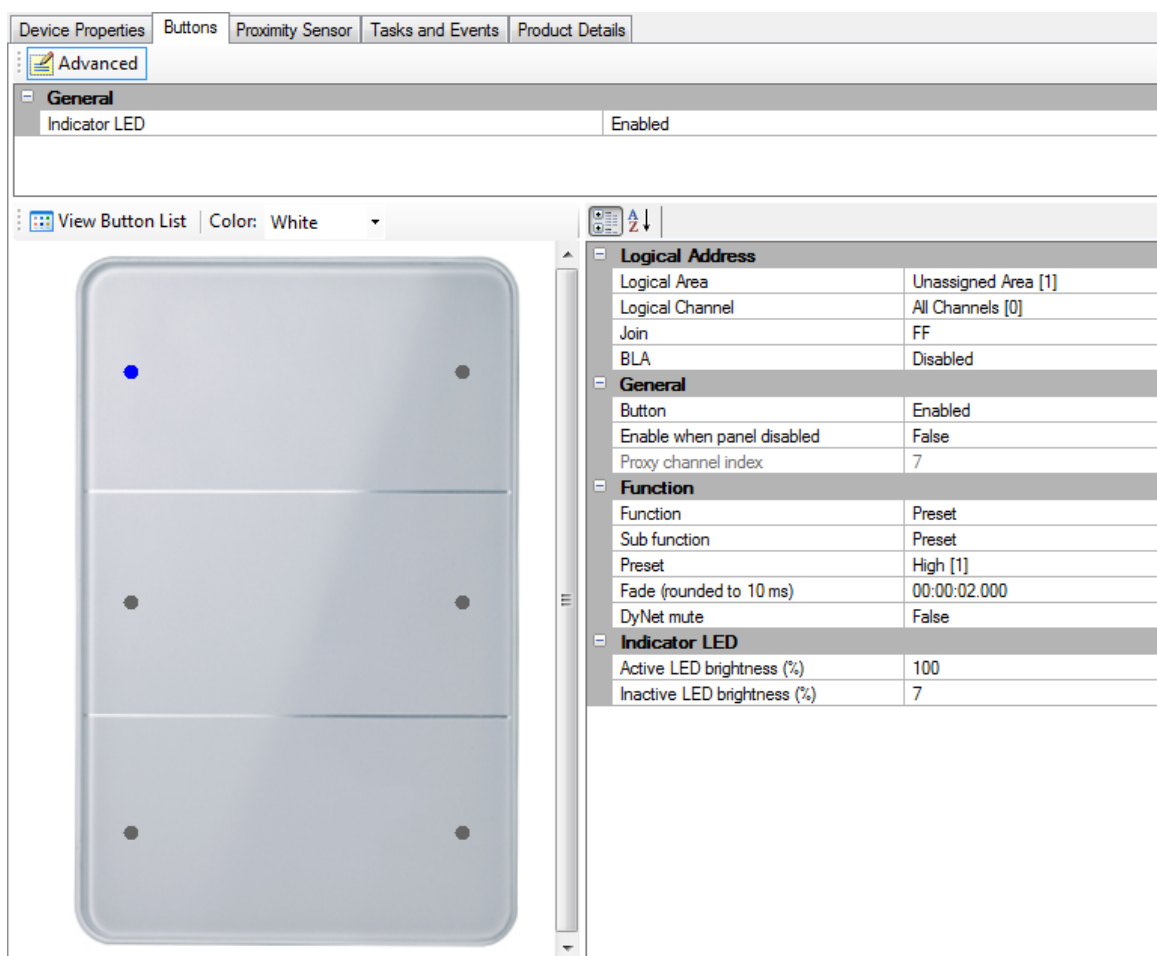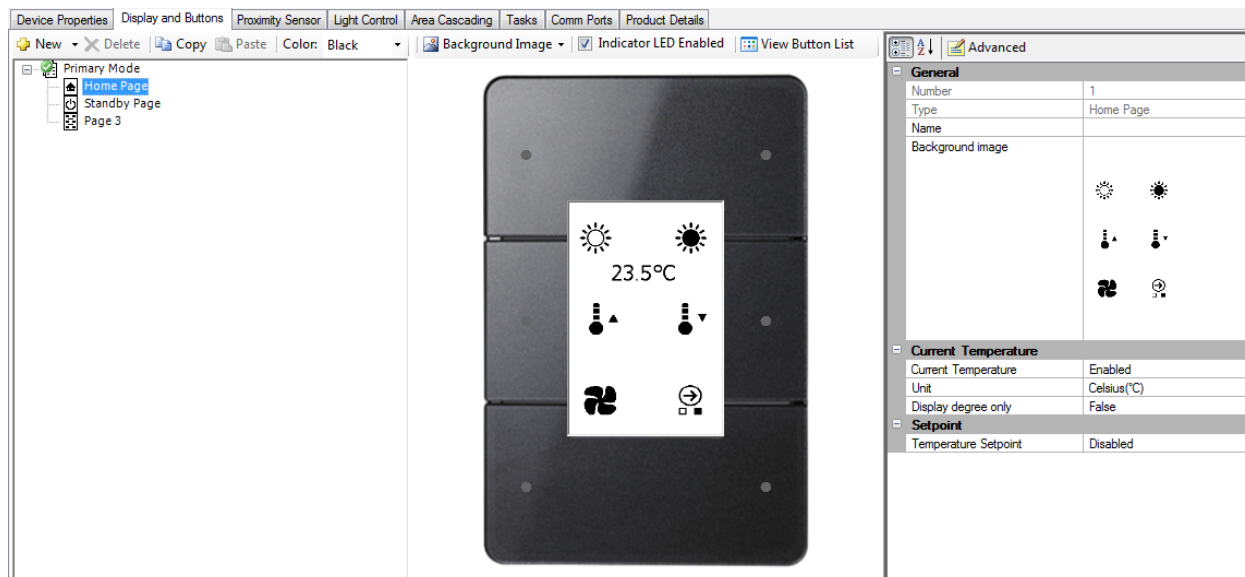

4.1.1 Tool Bar

- Change the Indicator LED setting to enable or disable the panel's LEDs.

- Click the 📝 Advanced button at the top of the window to view advanced settings.

- Click the ⊞ View button to toggle between the Button List and Panel views.

- Select the panel color from the dropdown list to automatically calibrate the light sensor in the panel.

4.2   Display and Buttons Editor

This page contains settings for each button, and the display.

4.2.1   Tool Bar

- Click ⊕ New to create a new page, or click the dropdown arrow to create a new mode.

- Click ✕ Delete to remove the highlighted page or mode.

- Use the ▦ Copy and ▦ Paste buttons to duplicate settings between pages.

- Select the panel color to automatically calibrate the light sensor in the panel.

- Click the ▦ Background Image button to Set, Clear, or Export the selected page's background. This background image includes the icons for each button.

- Check or uncheck the ☑ Indicator LED Enabled box to enable or disable the LEDs for the currently selected page on the panel.

- Click the ▦ Advanced button at the top of the window to view advanced settings.

- Click the ▦ View button to toggle between the Button List and Panel views.

4.2.2   Pages and Modes

Background images are stored as a monochrome black and white Portable Bitmap (pbm) file with a resolution of 240x368px (W x H). When setting a new background image, EP will attempt to resize and convert other file types (bmp, png or jpg) and sizes, but results may vary.

A collection of standard icons and templates is available from https://dynalite.org/Technical/product_information/EnvisionProject.htm

There are three page types; Standard, Home and Standby. Each mode can include one Home page and one Standby page, with multiple optional Standard pages. A panel can contain a maximum of 16 pages.

Modes are collections of one or more pages that serve a particular purpose or scenario. For example, a Real Time Clock on the DyNet network can send a message at 5pm, setting all panels to 'Night Mode (Mode 2)', providing customized lighting levels or limited access to building controls.

When the panel's proximity detector is activated, the Home page of the current mode is displayed.

A proximity timeout (no user presence for X seconds) will take the panel to the Standby page of the current mode. If no Standby page is configured, the panel will revert to the Home page.

Upon startup, the panel will default to the Home page of the Primary Mode. To change the Primary Mode, right click on a new mode and select and select

[icon] Set as Primary Mode.
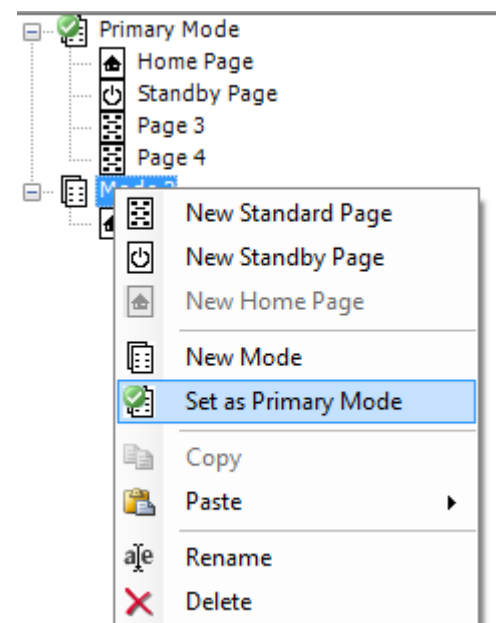
4.3   Button Properties

Click on a button in Button List View or Panel View to edit its functions and behavior. Standard properties are shown **like this**, while advanced properties are shown *like this*.
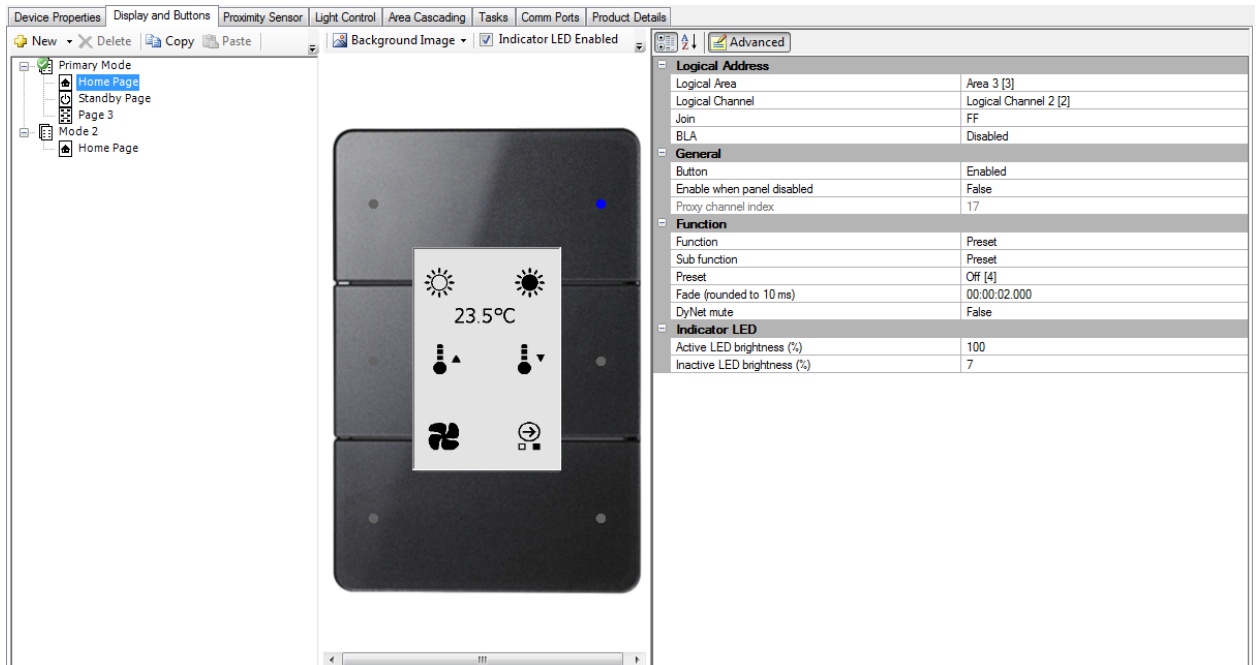
4.3.1   Logical Address

Property	Description
Logical Area	The Area affected by the selected button.
Logical Channel	The logical channel affected by the selected button, can be set to either a single channel number or "All Channels [0]"
Join	Please do not adjust these settings unless advised to do so by Philips Dynalite.
BLA	

4.3.2   General

| Property	Description
Button	Enabled/Disabled
Enable when panel disabled	True/False. Function is still available in panic mode. The button is enabled when panel is disabled.
Proxy Channel Index	Internal system setting, not user-adjustable.

4.3.3 Functions and Sub functions

The following functions are available for each button. Each function may have one or more sub functions and settings:

Advanced
- 🖥 Sign On
- 🕔 Event Control
- ⬌ Panic
- 📄 Panel enable / disable
- Set Join level
- DyNet 1 logical messages
- DyNet 1 physical message

Channel Level

Custom

One Touch
- Toggle Preset
- One touch ramp only
- One touch ramp with program

Preset
- Preset
- Off preset
- Reset Preset
- Preset offset
- Preset with program

Ramp
- Ramp up
- Ramp down

Task
- ✅ Task Local
- ▶ Task Control

🚫 **No function**

The following additional functions are available on the Antumbra Display:

Goto Page
- Goto Page By Number
- Goto Page by Mode

Temperature Setpoint
- Increment Temperature Setpoint
- Decrement Temperature Setpoint

🖥 Advanced > Sign On
Diagnostic function, checks the device by sending a DyNet message to the network.

🕔 Advanced > Event Control
Remotely enables, disables or triggers an event on a different device on the network.

Property	Description
Control type	Enable, Disable or Trigger an event when the button is pressed.
Device Code	Used to identify the target device.
Box number	Internal system setting, not user-adjustable.
Event number	Identifies the event on the target device.

Advanced > Panic

Property	Description
Panic	True/False – If True, sets the selected area to panic mode when the button is pressed, raising all dimming levels to 100% and locking UI controls for that area. If setting this option to False (disable panic mode), ensure that General > Enable when panel disabled is set to True.
Fade time	The time taken for dimming levels to fade from their current setting to 100%.

Advanced > Panel enable / disable

Property	Description
Enable Panel	True/False – Enables or disables the panel. If setting this to True, ensure that General > Enable when panel disabled is also set to True.
DyNet mute	Stop Dynet messages being created by this function.

Advanced > Set Join level

This function is used for joining and unjoining areas.

Property	Description
Join Level	0-255 – The specified area will be set to this level when the button is pressed.
DyNet mute	Stop Dynet messages being created by this function.

Advanced > DyNet 1 logical messages

This advanced function allows customized DyNet strings to be sent over the network. Consult Philips Dynalite before attempting to use this.

Property	Description
Opcode	Opcode of the logical message
Data1	First data byte
Data2	Second Data byte
Data3	Third data byte

Advanced > DyNet 1 physical message

This advanced function allows customized DyNet strings to be sent over the network. Consult Philips Dynalite before attempting to use this.

Property	Description
Device Code	Used to identify the device.
Box Number	Used to identify the device.
Opcode	Opcode of the physical message
Data1	First data byte
Data2	Second Data byte
Data3	Third data byte

Channel Level

Property	Description
Level	Sets the percentage level of light on the channel
Fade	The time taken to fade to the requested channel level
Off preset	Defines the off preset number for the area. If this preset is recalled, the button's indicator LED will deactivate.
DyNet mute	Stop Dynet messages being created by this function.

Custom

This function enables advanced custom actions built using the Action Chain Editor. Refer to the EnvisionProject Training Guide for more information.

Property	Description
Standard function name	Internal system function, not user-editable.
Press actions	Opens the Action Chain Editor.
Release actions	Opens the Action Chain Editor.
Extended press actions	Opens the Action Chain Editor.
Extended release actions	Opens the Action Chain Editor.

One Touch > Toggle Preset

This function toggles between the selected ON preset with the first button press, and the OFF preset with a second button press.

Property	Description
On Preset	Defines the preset for the button's ON state.
Off Preset	Defines the preset for the button's OFF state.
Fade (rounded to 10 ms)	Time taken to transition between presets.
DyNet Mute	Stops DyNet messages being created by this function.

One Touch > One touch ramp only

Property	Description
On Preset	Defines the preset for the button's ON state.
Off Preset	Defines the preset for the button's OFF state.
Fade (rounded to 10 ms)	Time taken to reach the preset level if the button is tapped.
Ramp rate	Time taken to ramp up to the required level if the button is held.
Min Level	Minimum light level when ramping down.
DyNet Mute	Stops DyNet messages being created by this function.
Double send stop fade	If True, the 'stop fade' command is sent twice to ensure correct operation on busy networks.

One Touch > One touch ramp with program

This function allows the user to change the levels for a particular preset. When the button is held down, the current levels will ramp up or down. If the button is released while ramping up, the new lighting levels will be saved to the ON preset.

Pressing the button briefly will toggle between the currently saved ON preset and the OFF preset.

Property	Description
On Preset	Defines the preset for the button's ON state.
Off Preset	Defines the preset for the button's OFF state.
Fade (rounded to 10 ms)	Time taken to reach the preset level if the button is tapped.
Ramp rate	Time taken to ramp up to 100% if the button is held. When the button is released, the current level will be saved to ON preset.
Min Level	Minimum light level when ramping down.
DyNet Mute	Stops DyNet messages being created by this function.

One Touch > One touch ramp with program

Preset > Preset

Property	Description
Preset	Defines the preset for the button's ON state.
Fade (rounded to 10 ms)	Time taken to reach the ON state.
DyNet Mute	Stops DyNet messages being created by this function.

Preset > Off preset

Instantly drops all channels in the specified area to 0%.

Property	Description
Off Preset	Defines the area's OFF preset for the button's indicator LED.
DyNet Mute	Stops DyNet messages being created by this function.

Preset > Reset Preset

Resets all channels in an area to the currently selected preset.

Property	Description
Fade	Time taken to reset the current preset.
DyNet Mute	Stops DyNet messages being created by this function.

Preset > Preset offset

Property	Description
Preset offset	When button is pressed, all other preset commands are incremented by this number.
DyNet Mute	Stops DyNet messages being created by this function.

Preset > Preset with program

Property	Description
Preset	If button is tapped this preset will be recalled. If button is held down for three seconds, this preset will be overwritten with the current levels.
Fade (rounded to 10 ms)	Time taken to reach the ON state.
DyNet Mute	Stops DyNet messages being created by this function.

Ramp > Ramp up

Property	Description
Fade (rounded to 10 ms)	Time taken to fade from the current level to 100%.
On channels only	If True, only channels with a level 1% or higher will ramp up.
DyNet Mute	Stops DyNet messages being created by this function.
Double send stop fade	If True, the 'stop fade' command is sent twice to ensure correct operation.

Ramp > Ramp down

Property	Description
Min Level	Minimum light level when ramping down.
Fade (rounded to 10 ms)	Time taken to reach the preset level if the button is tapped.
Ramp rate	Time taken to ramp up to the required level if the button is held.
DyNet Mute	Stops DyNet messages being created by this function.
Double send stop fade	If True, the 'stop fade' command is sent twice to ensure correct operation on busy networks.

✅ Task > Task Local

This function controls a custom task that is stored and executed on the panel. For more information on basic and advanced tasking, refer to the EnvisionProject Training Guide.

Property	Description
Control type	Start, Pause or Stop the selected task.
Task	Defines the task number.

▶ Task > Task Control

This function controls a task on another device. For more information on basic and advanced tasking, refer to the EnvisionProject Training Guide.

Property	Description
Control type	Start, Pause or Stop the selected task.
Device code	Code to identify the device on which the remote task is executed.
Box number	Number to identify the device on which the remote task is executed.
Task	Defines the task number on the target device.

🚫 No Function

Select this option for buttons that are not in use.

Goto Page > Goto Page By Number (AntumbraDisplay only)

Property	Description
Page	Specifies a page number to load when the button is pressed. Only pages in the same mode as the current page are available.

Goto Page > Goto Page by Mode (AntumbraDisplay only)

Loads the homepage of the selected mode when the button is pressed.

Property	Description
Mode	Specifies the required mode.
Type	Homepage – this option cannot be edited.

Temperature Setpoint > Increment Temperature Setpoint (AntumbraDisplay only)

Property	Description
Unit	Select Celsius (°C) or Fahrenheit (°F).
Step	The rate of temperature increase per button press.
Maximum temperature	The highest temperature that can be selected.
DyNet Mute	Stop DyNet messages being created by this function.

Temperature Setpoint > Decrement Temperature Setpoint (AntumbraDisplay only)

Property	Description
Unit	Select Celsius (°C) or Fahrenheit (°F).
Step	The rate of temperature decrease per button press.
Minimum temperature	The lowest temperature that can be selected.
DyNet Mute	Stop DyNet messages being created by this function.

Indicator LED

Property	Description
Active LED brightness	Defines the brightness percentage level of the LED when the button is in active state.
Inactive LED brightness	Defines indicator LED brightness level when button is in inactive state.

The following settings are available for Custom and No Function only:

LED	Enable/Disable LED function for the selected button.
Follow panic logic	Sets LED to active, inactive or ignore when panic mode is activated.
Follow panel enable logic	Defines LED behavior when panel is enabled/disabled.
Follow preset logic	Defines LED behavior based on the current preset.
LED fade time (rounded to 10 ms)	Defines fade time for LED.
Min preset	Together with Max preset, this range is used by the Follow preset logic setting.
Max preset	Together with Min preset, this range is used by the Follow preset logic setting.
Logical Area	
Logical Channel	Please do not adjust these settings unless advised to do so by Philips Dynalite.
Join	
BLA	
Off preset	Defines the off preset number for the area. It is used by LED tracking.

5 Proximity Sensor

The proximity sensor is used to detect a user approaching the Antumbra Panel. As the user is detected, the proximity sensor lights the back of the panel to produce a lightwash effect that welcomes the user to interact with the device.

Settings for the proximity sensor are located in the Proximity Sensor page as shown below:

Device Properties	Display and Buttons	Proximity Sensor	Light Control	Area Cascading	Tasks	Comm Ports	Product Details

Advanced

General	
Control	Enabled
Active presets	True
Min preset	1
Max preset	255
Timeout	00:00:05
Max proximity time	00:45:00
Proximity sensitivity	High
Logical Address	
Proxy channel index	1
Logical Area	Area 14 [14]
Logical Channel	All Channels [0]
Join	FF
BLA	Disabled
Lightwash	
Lightwash	Enabled
Lightwash fade time (rounded to 10 ms)	Default
Lightwash brightness level (%)	100
Lightwash proxy channel index	2
Lightwash logical Area	Area 14 [14]
Lightwash logical Channel	All Channels [0]
Lightwash Join	FF Change
Lightwash BLA	Disabled
Display Backlight	
Display Backlight	Enabled
Display backlight fade time (rounded to 10ms)	Default
Display backlight brightness level (%)	100
Display backlight proxy channel index	3
Display backlight logical Area	Area 14 [14]
Display backlight logical Channel	All Channels [0]
Display backlight Join	FF
Display backlight BLA	Disabled
Function	
Target detected actions	Proximity Detected - Light threshold (lux): 13, Lightwash level in low light (%): 20, Active i...
Target not detected actions	DyNet1 physical smart send (Mute); DyNet1 logical smart send (Mute); DyNet1 logical sm...

5.1.1 General

Property	Description
Control	Enable/Disables the proximity sensor.
Timeout	Time delay between target not detected and any 'Target not detected actions' are executed. The minimum value of timeout in proximity sensor is set to 5 seconds.
Max proximity time	Maximum time that proximity sensor can be in target detected status before it reverts to 'Target not detected' state.

5.1.2 Logical Address

Property	Description
Logical Area	
Logical Channel	Please do not adjust these settings unless advised to do so by Philips Dynalite.
Join	
BLA	

5.1.3 LightWash

Property	Description
Lightwash	Enable/Disable lightwash.
Lightwash brightness level	Brightness level of the lightwash
Lightwash Logical Area	
Lightwash Logical channel	Please do not adjust these settings unless advised to do so by Philips Dynalite.
Lightwash Join	
Lightwash BLA	

5.1.4 Display Backlight

These settings control the backlight of the AntumbraDisplay.

Property	Description
Display Backlight	Enable/Disable Display Backlight.
Display Backlight brightness level	Brightness level of the Display Backlight
Display Backlight Logical Area	
Display Backlight Logical channel	Please do not adjust these settings unless advised to do so by Philips Dynalite.
Display Backlight Join	
Display Backlight BLA	

5.1.5   Function

Property	Description
Target detected actions	Opens the Action Chain Editor for Proximity Sensor Target detected actions.
Target not detected actions	Opens the Action Chain Editor for Proximity Sensor Target not detected actions.

The AntumbraDisplay default 'Target detected' behavior is to load the Home page of the current mode. The default 'Target not detected' (proximity timeout) behavior is the load the Standby page if one is configured for the current mode.

6 Area Cascading

Area cascading can be configured from the Area Cascading page in the Logical View. Refer the EnvisionProject Training Guide for more information.

7 Tasks and Events

Tasks and Events can be written on the Task Editor. Refer the EnvisionProject Training Guide for more information.

> **Note:** When creating tasks using variables store in tilde memory, only use the location range 0-59.

8 Comm Ports

The Antumbra communication module has one standard DyNet port. For more information refer to the EnvisionProject Training Guide. Older versions of EnvisionProject may refer to this page as DyNet Ports.

9 Product Details

The Product Details page displays the name, short description and a snapshot of the physical product.

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Antumbra
Document Revision: B