Antron Electronics Co.,LTD
安雄電子股份有限公司

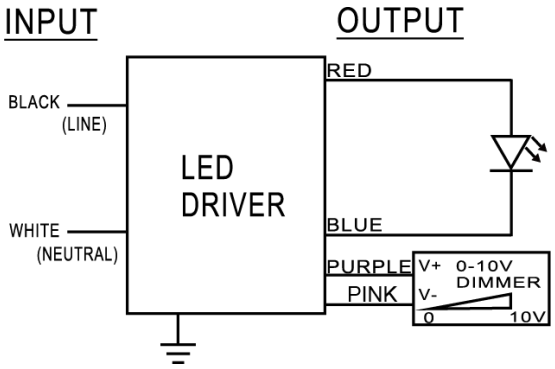
Programmable LED Driver

Model Name	PAC2100S80DLI
Output Mode	Constant Current
Input Voltage	120-277 Vac
Input Frequency	50/60 Hz
Isolated Dimming	3 in 1 (PWM, 1-10V, Resistance) Dim to 10%
Surge Rating	2KV
Warranty	5 Years TC≦75℃ 3 Years 75℃＜TC≦90℃

Product Specification

Output Power (W)	Output Voltage (V)	Output Current (A)	Start Temp. (˚F/˚C)	Tcase Temp. (˚F/˚C)	Input Current (A)	Input Power (W)	Inrush Current (A)	THD (%)	Power Factor	Efficiency (%)
Max. 80	27-55	1.05-2.1	Min 32/0	Max. 194/90	0.76@120V 0.33@277V	93	40	Max. 20	Min. 0.9	Typ. 86

Wire Diagram

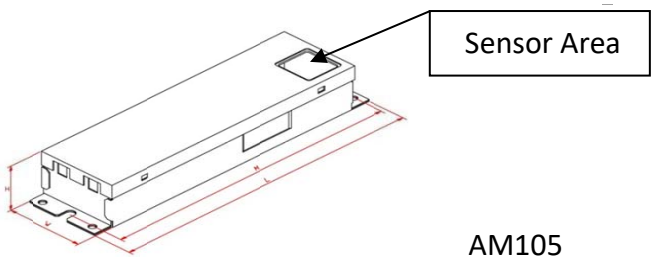


Maximum Wiring Distance (at full load) is 18AWG/18Feet

LED case should be grounded

Lead Length	Inch	Cm
Black	6	15.2
White	6	15.2
Green	NA	NA
Red	6	15.2
Blue	6	15.2
Purple	7.1	18
Pink	7.1	18

Enclosure



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Enclosure	Inch	Cm
Length(L)	9.5	24.1
Width(W)	2.4	6.1
Height(H)	1.46	3.7
Mounting(M)	8.9	22.6

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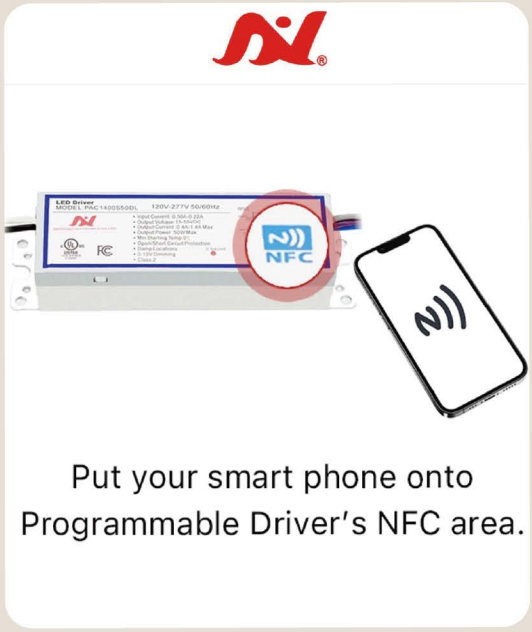
www.antron.com.tw Tel:886-6-726-3906/7 Fax:886-6-726-3908 info@antron.com.tw

HOW TO USE NFC PROGRAMMING

1. Downloading the App

(1.) Open the App Store /Google Play on your smart Phone.
(2.) Search for Antron App.
(3.) Tap Download and wait for the app to install.



Put your smart phone onto Programmable Driver's NFC area.

2. App Setup and Operation

(1.) **Launch the App**
Open the app by tapping the Antron LED Driver icon on your home screen.

(2.) **Ensure NFC is Enabled**
Verify that the NFC functionality on your device is turned on.

(3.) **Scan the Driver**
Place your device' s NFC area near the tag' s NFC logo to start scanning.

(4.) **Automatic Detection**
Once detected, the app will navigate directly to the corresponding operation interface.

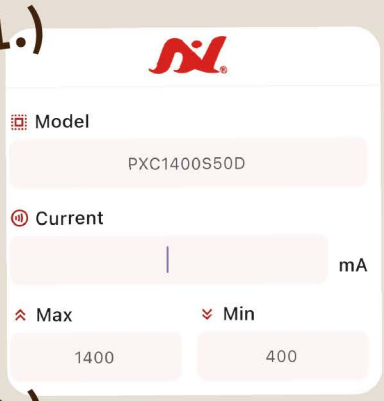
(5.) Before making any setting changes, please ensure that the configured model matches the read driver model. If not, please click "Read" to re-pair the model.

3. Configuring Driver Settings

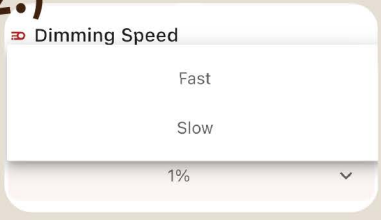
(1.) **Current Settings**
In the Current field, input the desired current value.
The maximum and minimum current limits will be displayed below for reference.

(2.) **Dimming Speed**
Select either Fast or Slow based on your preference.

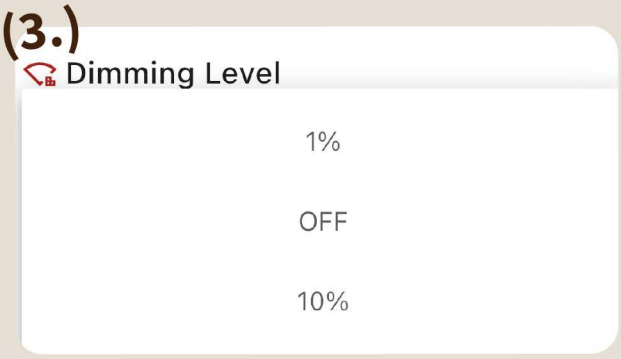
(1.)



(2.)



(3.)



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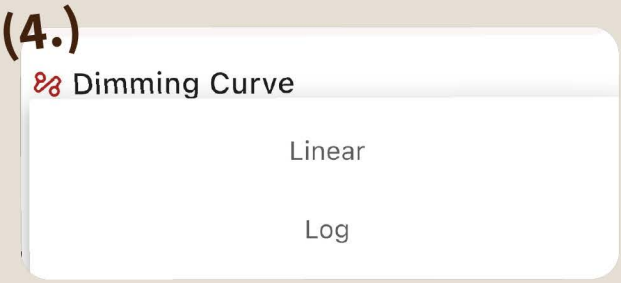
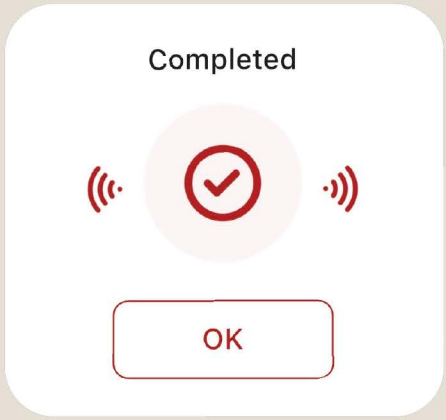


(5.)



(3.) Dimming Level

Adjust the minimum output power via the dimmer to 1%, 10%,or off, according to your requirements.

(4.) Dimming Curve

Choose between Linear or Log dimming for your application.

(5.) Apply Settings

Once all the desired settings are selected, tap Write and bring your device’ s NFC area close to the LED Driver’ s NFC logo to initiate programming.

When the screen displays Completed, the scanning and configuration are finished.

4. Troubleshooting

(1.) Unable to Detect the Driver

Ensure NFC is enabled on your Apple device.
Check that the NFC tag is clean and free of obstructions.

(2.) Settings Not Applying

Confirm that the device is properly scanned.
Confirm that the input current value is within the product’ s maximum and minimum limits.
Retry applying settings and ensure you tap Write.

(3.) App Crashing or Freezing

Restart the app or your device.
Ensure you’ re using the latest app version.

(4.) Contact Support

For further assistance, contact our support team:
Email: info@antron.com.tw

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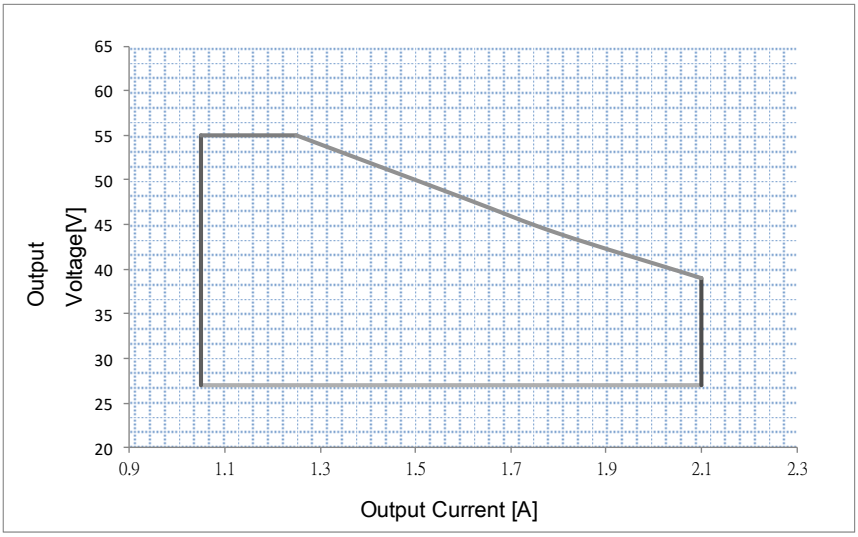
Programmable Tool

- Put the programmable wand above the NFC mark of the driver to start programming
- Download the software from www.antron.com.tw

I_{out} vs V_{out} Curve



Output Current Code List

Output Current Code List

Current Value (mA)	Correspond Iout Code Location				Current Value (mA)	Correspond Iout Code Location			
	0	1	2	3		0	1	2	3
1050	04	1A	00	08	1650	06	72	00	08
1100	04	4C	00	08	1700	06	A4	00	08
1150	04	7E	00	08	1750	06	D6	00	08
1200	04	B0	00	08	1800	07	08	00	08
1250	04	E2	00	08	1850	07	3A	00	08
1300	05	14	00	08	1900	07	6C	00	08
1350	05	46	00	08	1950	07	9E	00	08
1400	05	78	00	08	2000	07	D0	00	08
1450	05	AA	00	08	2050	08	02	00	08
1500	05	DC	00	08	2100	08	34	00	08
1550	06	0E	00	08	2100 OFF	08	34	01	08
1600	06	40	00	08					

Note: **Factory default current is set to the maximum current unless otherwise specified.** For drivers containing Revision C of their firmware (contact factory for date code of implementation), it is also possible to adjust the minimum dimming level and the dimming speed by programming the location 2.

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Programmable Driver Options (App Note)

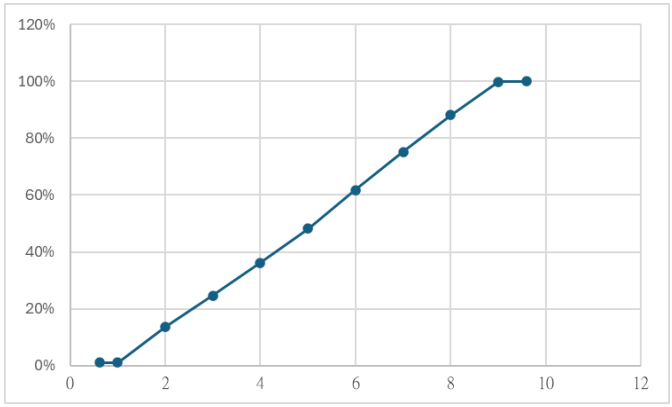
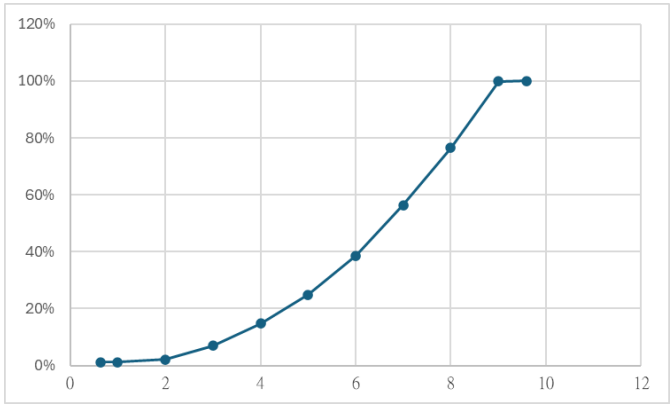
All programmable drivers accept a 16-bit hexadecimal code to program the output current (Iout) of the driver. The Iout programming codes are documented in the computer based-programming software (ST-TOOLS.exe) or from the driver's IOUTCODE.pdf file. The Locations below 0, 1, 2, 3 contain the basic code for a specific output current value.

Location | 0 | 1 | 2 | 3 |
Value | 00 | 00 | 00 | 00 |

For drivers containing Revision C of their firmware (contact factory for date code of implementation), it is also possible to adjust the minimum dimming level and the dimming speed ≤ 1.0 sec. This adjustment is made by modifying location 2 of the programming code while keeping the other locations set for the desired output current. Specifically, the location 2 values are defined as:

Linear Dimming	Logarithmic Dimming
• 00 => Dim to 1% • 01 => Dim-to-OFF • 02 => Dim to 10%	• 10 => Dim to 1% • 11 => Dim-to-OFF • 12 => Dim to 10%

Dimming Curve

Linear Dimming	Logarithmic Dimming
	

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Dimmer Compatibility Chart

Dimmer Compatibility Chart					
Leviton	IP710	**Lutron**	NFTV	**TORCHSTAR**	0-10V LED Dimmer Switch
Leviton	DS710	**Lutron**	Diva DVSTV-WH	**Eaton**	SF10P-W
Lutron	DVTV	**Lutron**	NTSTV NOVA T	**Legrand**	Radiant RH4FBL3PTC

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