Programmable LED Driver

Model Name	PAC3100S130D
Output Model	Constant Current
Input Voltage	120-277 Vac
Input Frequency	50/60 Hz
Dimming	3 in 1 (PWM, 1-10V, Resistance) Dim to 10%
Surge Rating	2KV
Warranty	5 Years TC≦75°C 3 Years 75°C≦TC≦90°C

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. 130	25-42	2.5-3.1	Min 32/0	Max. 194/90	1.24@120V 0.54@277V	149	40	Max. 20	Min. 0.9	Typ. 87

Wire Diagram

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

LED case should be grounded

Lead Length	Inch	Cm
Black	5.9	15
White	5.9	15
Green	NA	NA
Red	5.9	15
Blue	5.9	15
Purple	7.1	18
Gray	7.1	18

Enclosure

Sensor Area

AM102

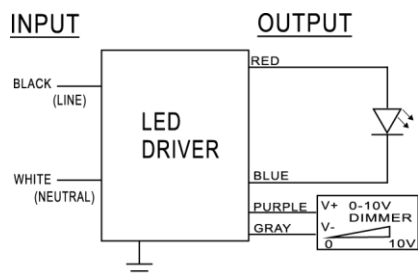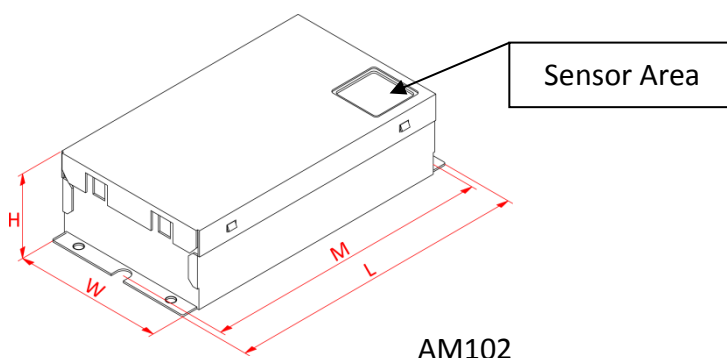| Enclosure	Inch	Cm
Length(L)	6.85	17.4
Width(W)	3.58	9.1
Height(H)	1.73	4.4
Mounting(M)	6.54	16.6

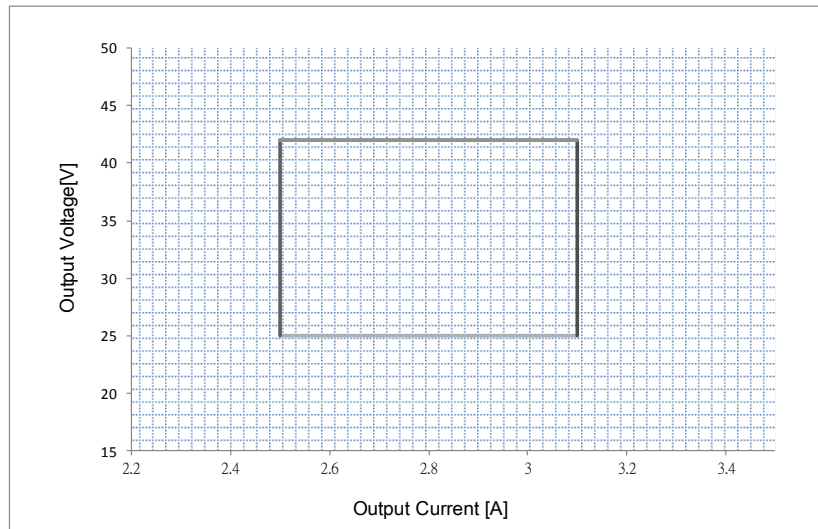Antron Electronics Co.,LTD
安雄電子股份有限公司

Programmable LED Driver

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				Current Value (mA)	Correspond Iout Code			
	Location					Location			
	0	1	2	3		0	1	2	3
2500	48	08	00	0B	2850	56	09	00	0B
2550	6B	08	00	0B	2900	88	09	00	0B
2600	8E	08	00	0B	2950	A6	09	00	0B
2650	B6	08	00	0B	3000	CE	09	00	0B
2700	DE	08	00	0B	3050	00	0A	00	0B
2750	06	09	00	0B	3100	28	0A	00	0B
2800	2E	09	00	0B					

Note: 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.

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 (example 84 03 00 01 = 1050 mA for PAC1400S50D).

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. 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 3 values are defined as:

• 00 => Dim to 1%, Speed ≤ 1.0 sec
• 01 => Dim-to-OFF, Speed ≤ 1.0 sec
• 02 => Dim to 10%, Speed ≤ 1.0 sec
• 03 => Dim to 1%, Speed ≥ 2.5 sec
• 04 => Dim-to-OFF, Speed ≥ 2.5 sec
• 05 => Dim to 10%, Speed ≥ 2.5 sec

As an example, if the programming code value of 84 03 00 01 is programmed, the output current will be 1050 mA, and the driver will dim to 1% and the dimming speed will be ≤ 1.0 sec. If the programming code of 84 03 04 01 is programmed, the output current will be 1050 mA, and the driver will dim to off and the dimming speed will be ≥ 2.5 sec.