

AB-LCS Series

PWM Networking Gateway



Features:

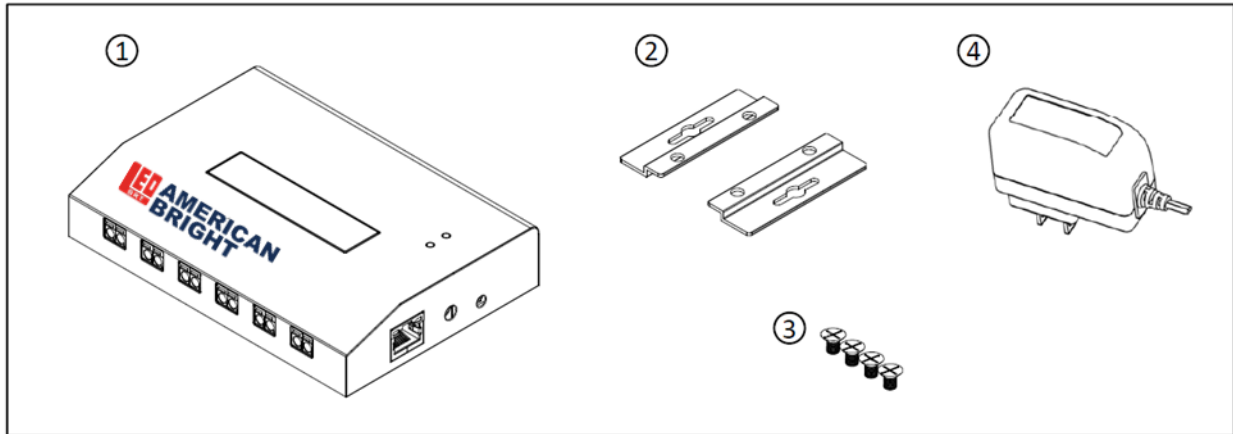
- 6-channel PWM control port
- Low power consumptions
- Remotely managed through networked settings
- Schedule control for ON/OFF and dimming
- Support external motion sensor and digital light switch
- Support external RS485 devices
- Optional PoE (Power over Ethernet) Version Released

Product Specification:

Model	AB-LCS50	AB-LCS55	AB-LCS100
Power Input	Adaptor Type @100-240VAC Input, 5VDC/1A Output		
Power Consumption	Less than 1 W or 300mA		
PWM Control Port	6 channels (D+/D-) for PWM control		
Status Indicator	LED for Power & Status		
Ethernet Port	RJ45 Type (w/ LED status)		
PIR Port	n/a	1 port, 2 pins digital type @ 5VDC	
Digital Switch	n/a	1 port, RJ45 Type (ON/OFF triggering)	
LCD Display	n/a	n/a	Mono 16 char x 2 row display for IP address & channel status
RS485 I/O	n/a	n/a	RJ45 Type with DIP settings
Operating Temp.	-20°C to 60°C (full load)		
Dimension (WxDxH)	139 x 98 x 26 (mm)		
Accessory	1 set of mounting brackets		
Weight	~420 g	~425g	~435g
Warranty	3 years / 5 years extended		

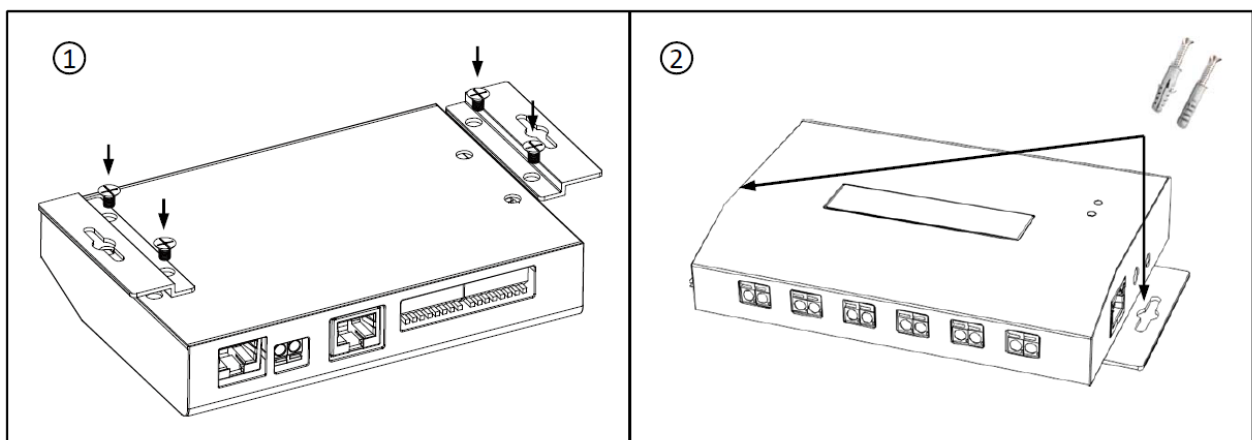
Installation Guide:

1. Hardware Descriptions



- 1) AB-LCS100 PWM Networking Gateway x 1
- 2) Wall Mount Bracket x 2
- 3) Device Mount Screws x 4
- 4) AC/DC Power Adaptor x 1

2. Mounting Bracket Installation

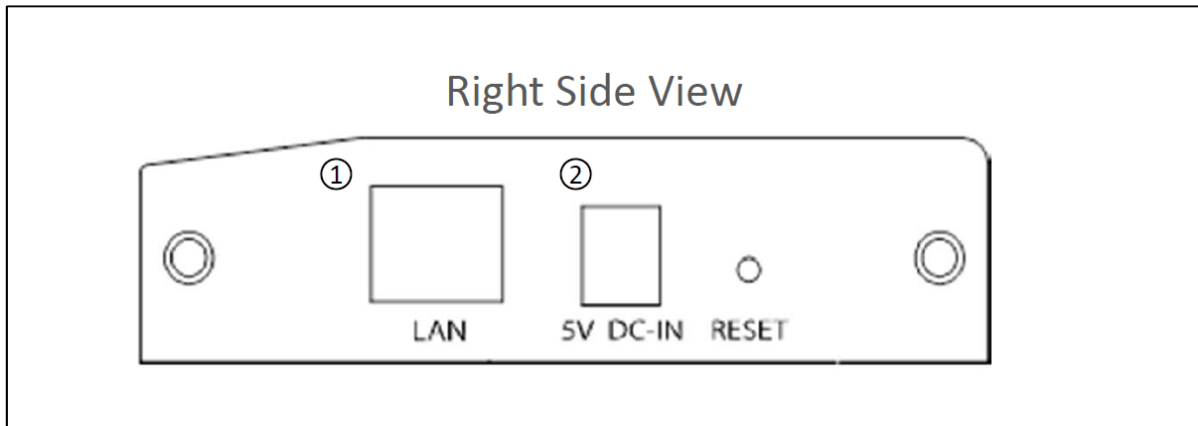


- 1) The wall mount bracket fits on the bottom of the device by its matching screw holes. Use the bracket screws supplied for fastening the mounting bracket to the device.

- 2) To mount the device on any surfaces, use proper mounting screws (not included) such as plastic anchor or expansion screw for ceiling or wall mount. Consult your installer for proper mounting requirements.

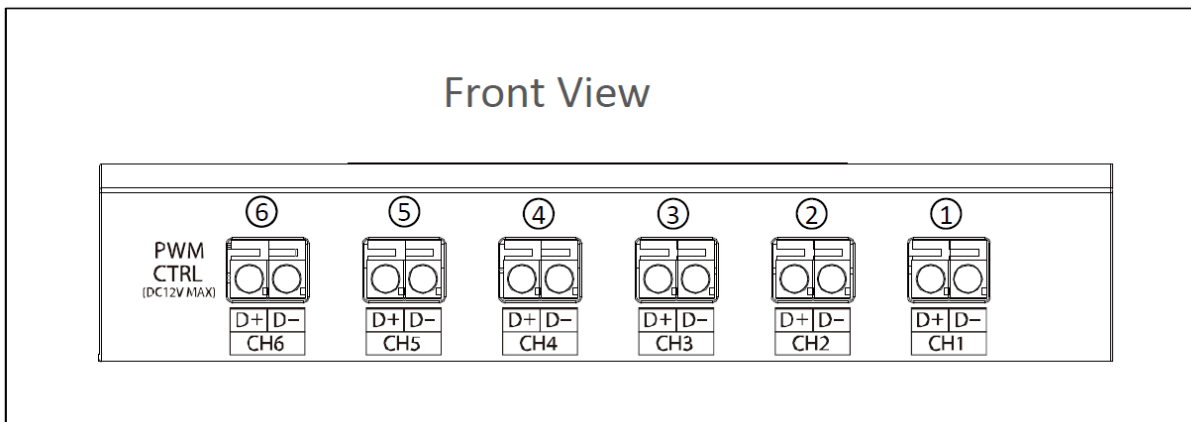
Cable Connection:

1. Network LAN & Power



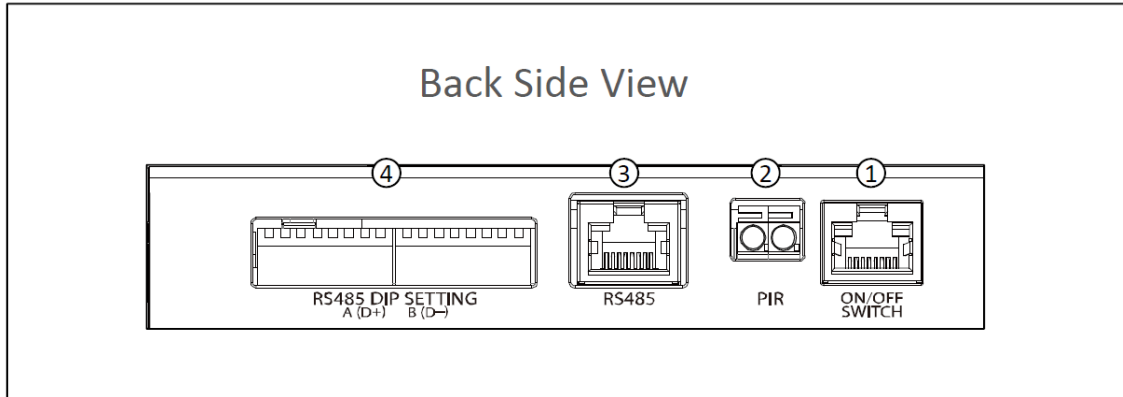
- 1) LAN: For connecting to a RJ45 LAN network cable (not included)
- 2) 5V DC-In: For connecting to a 5V1A, AC/DC power adaptor (included)

2. PWM Control Port



Channel 1-6 PWM Control Port, DIM L (+), DIM R (-)

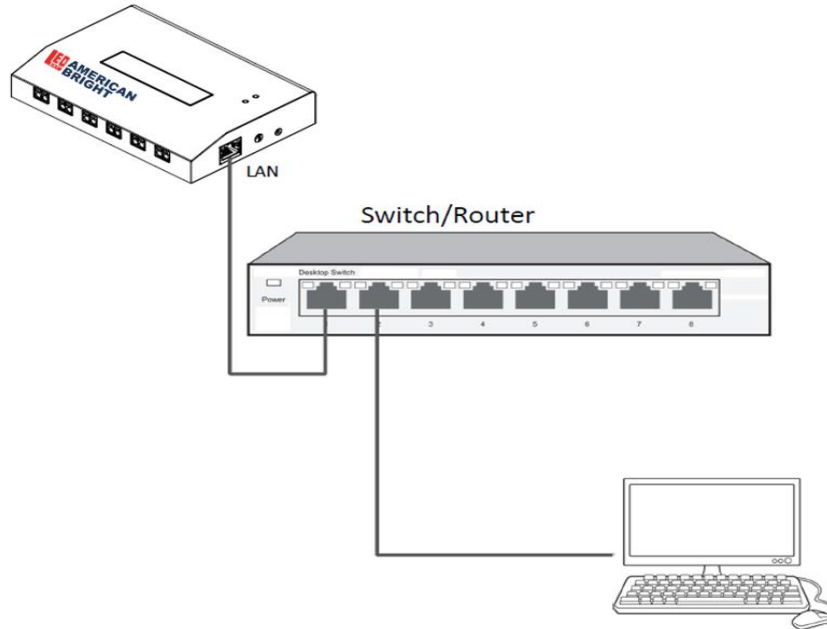
3. Digital Switch/PIR/RS485 Port



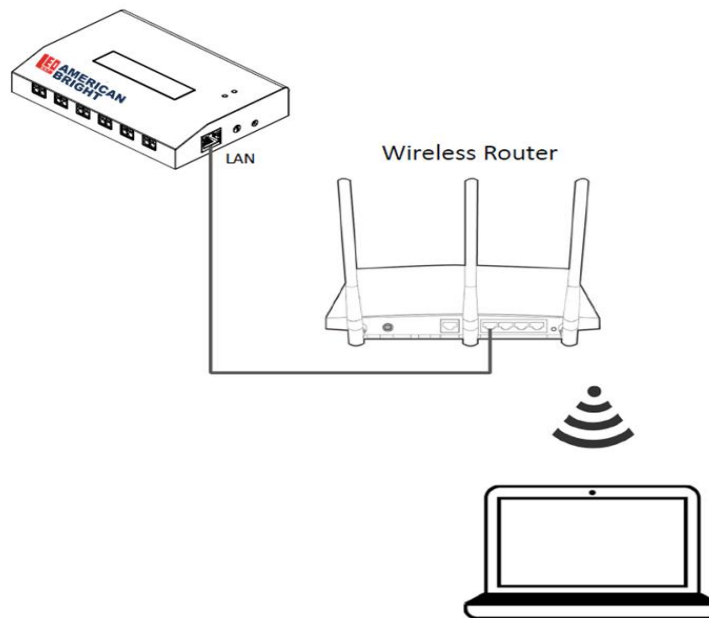
- 1) ON/OFF SWITCH : For connecting up to 6 light switches
- 2) PIR Port : For connecting to a motion sensor
- 3) RS485 Port : For connecting to optional RS485 type sensors or peripheral
- 4) RS485 DIP SETTING : For jumper settings for RS485 port

Network Wiring Scheme:

1. Wired Network:

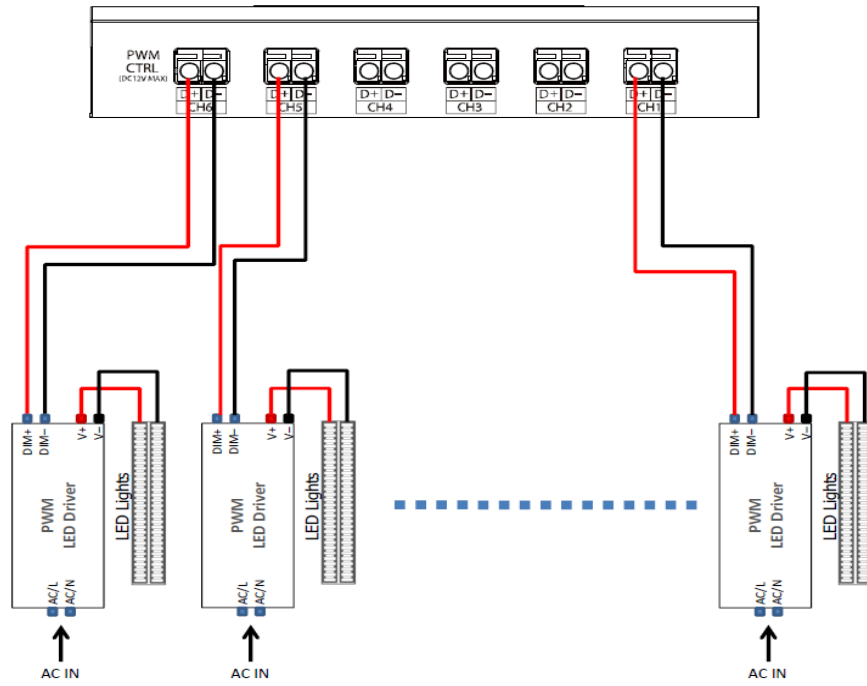


2. Wireless Network:

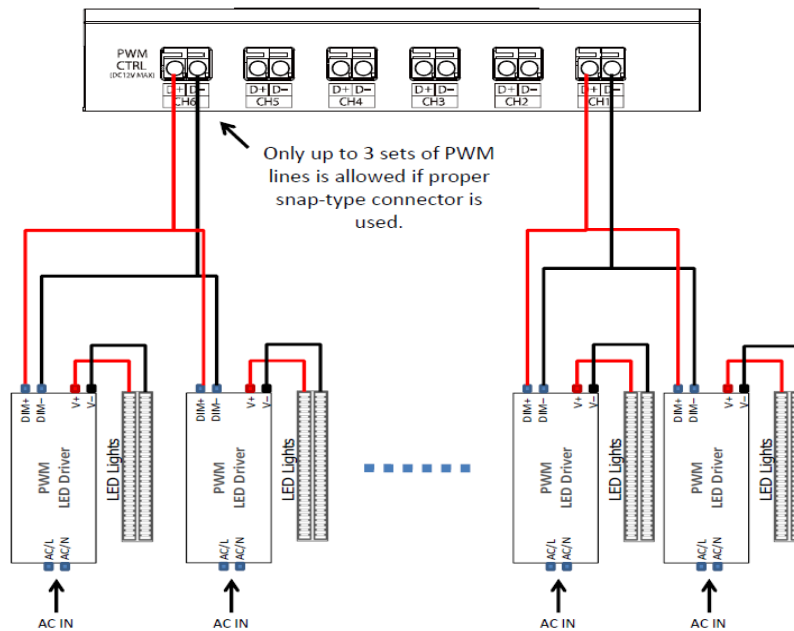


PWM Wiring Scheme:

1. Single Channel Single Connection



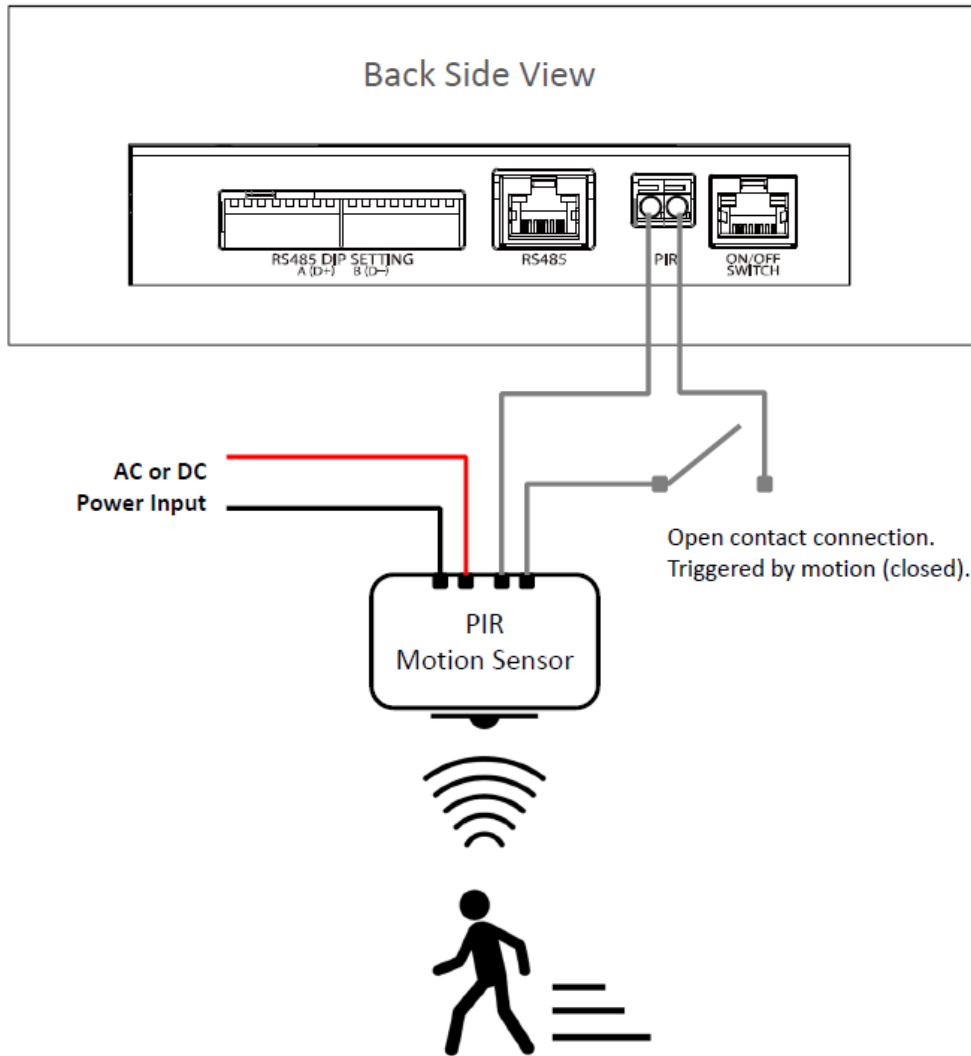
2. Single Channel Multiple Connection



Optional Wiring:

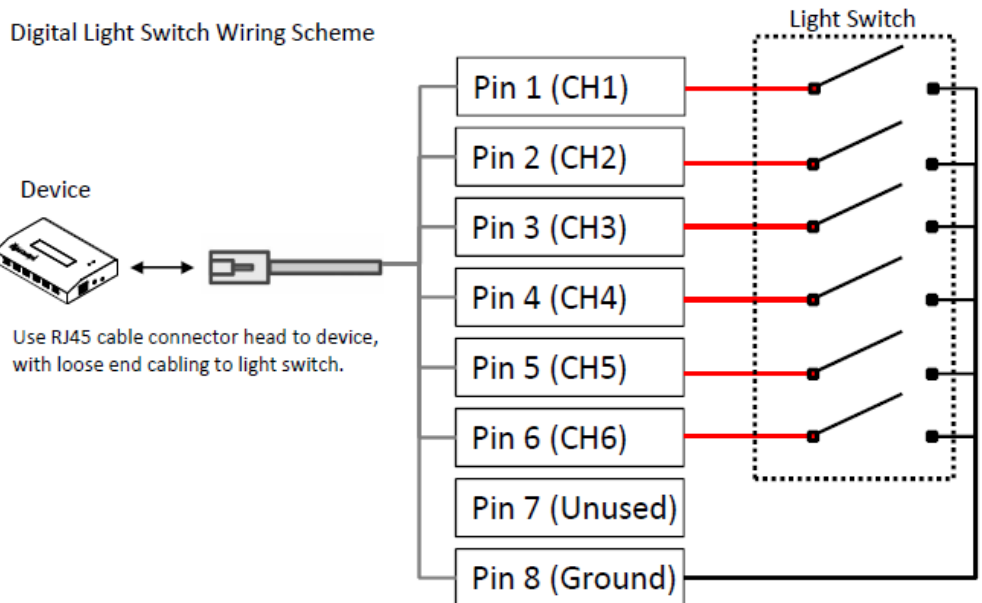
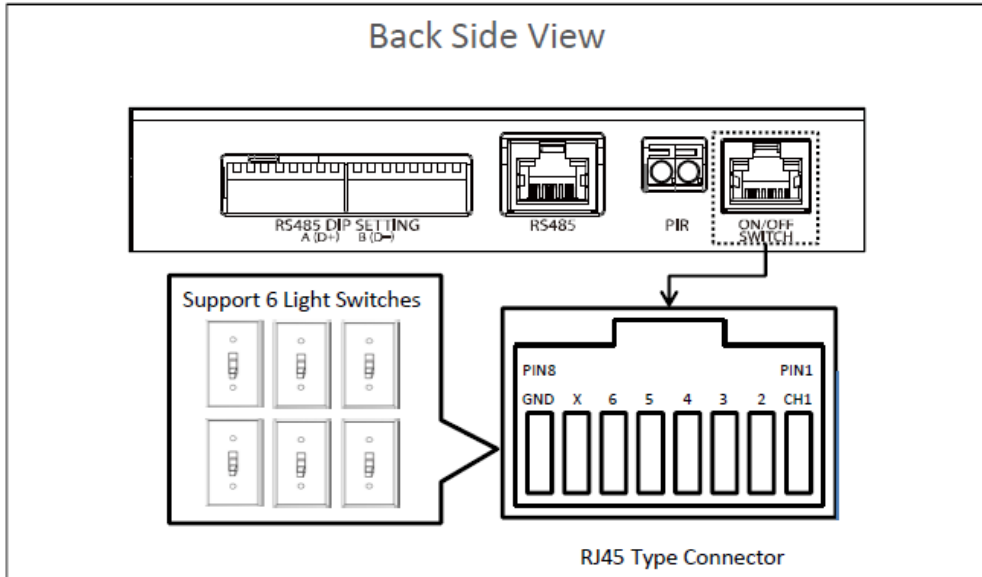
1. PIR Wiring (Motion Detection)

The following wiring scheme uses typical PIR motion sensor widely available sold in the market.



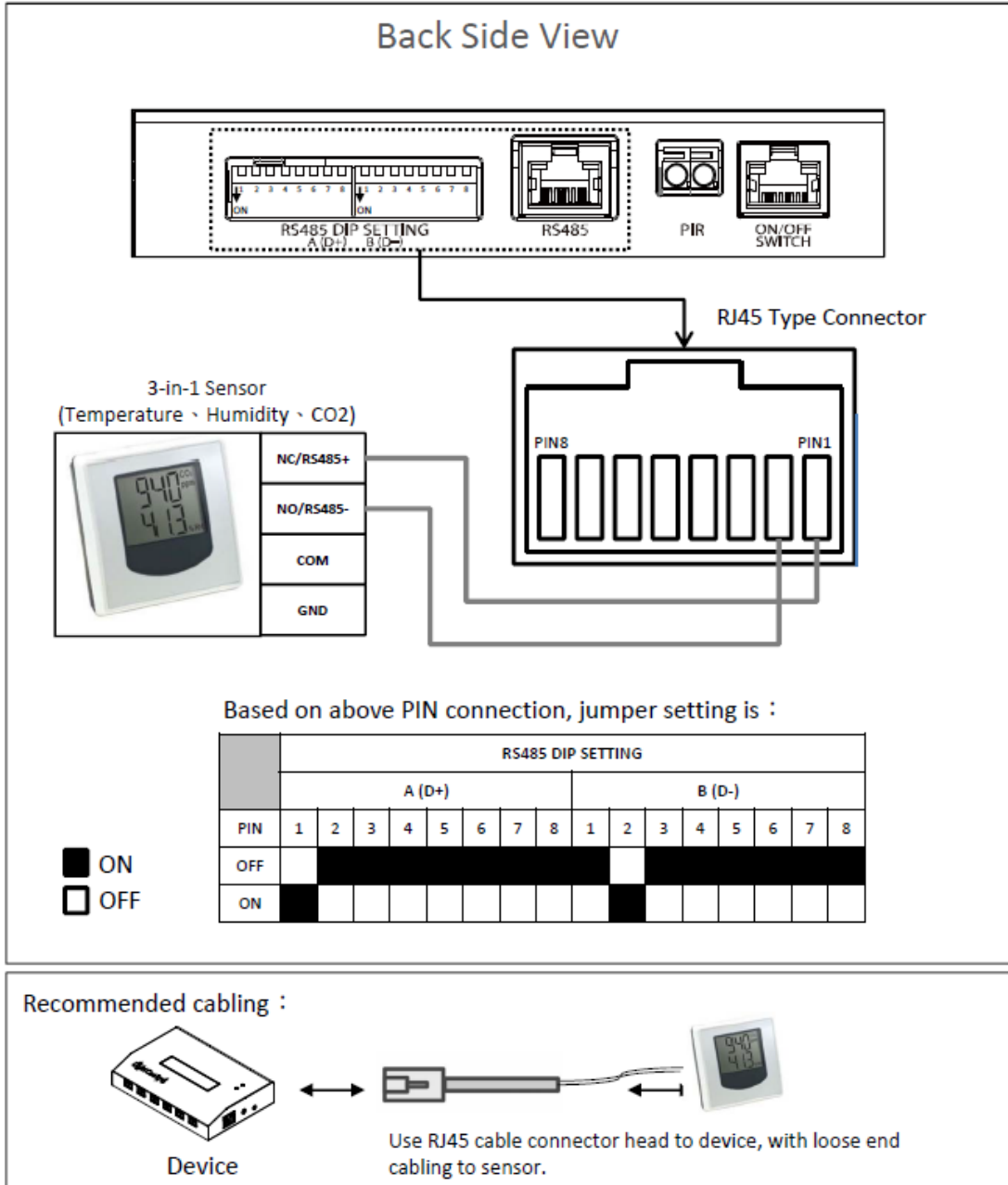
2. Digital Switch Wiring (For light switch)

The followings wiring scheme uses a typical light switch sold in the market.



3. RS485 Wiring & Jumper Setting (For External Sensors)

The following is an example of RS485 type 3-in-1 sensor for temperature, humidity, and CO₂ level.



Software management:

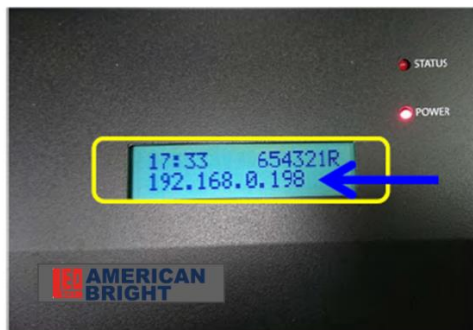
AB-LCS series has a simple web-based light management tool that provides basic dimming, timer settings, digital light switch (needs digital switch installed) and PIR motion detection triggering (needs PIR sensor installed).

The web-based software is self-explanatory and easy to operate without further needs for understanding complex instructions. User can comprehend quickly with just an hour or less of training.

The graphical interface is designed for control room environment viewing so it will not provider further stress to the user’s eyes.

1. Access Web-Based Browser Program

For AB-LCS100 device, simply connect LAN cable directly to the device’s LAN port and type in the IP address as shown on its LCD screen to access the web-based LMS EZ program. For AB-LCS55 or AB-LCS50, we will supply you with TCP/IP discovering tool program, which will automatically scan for LCS devices in its connected local area network.



Type in IP address in web browser (Recommend using Google Chrome)



2. Main Page Function Description:

CHAN NO	LED STAT	DIG SW	PIR STAT	AREA/LOCATION	PWM & TIME SETUP (1)	PWM & TIME SETUP (2)	PWM & TIME SETUP (3)	PWM & TIME SETUP (4)
CH 1	ON	OFF	X	CH1	100% 08:00 - 18:00	80% 00:00 - 00:00	50% 00:00 - 00:00	30% 00:00 - 00:00
CH 2	ON	OFF	X	CH2	100% 08:00 - 18:00	80% 00:00 - 00:00	50% 00:00 - 00:00	30% 00:00 - 00:00
CH 3	ON	OFF	X	CH3	100% 08:00 - 18:00	80% 00:00 - 00:00	50% 00:00 - 00:00	30% 00:00 - 00:00
CH 4	ON	OFF	X	CH4	100% 08:00 - 18:00	80% 00:00 - 00:00	50% 00:00 - 00:00	30% 00:00 - 00:00
CH 5	ON	OFF	X	CH5	100% 08:00 - 18:00	80% 00:00 - 00:00	50% 00:00 - 00:00	30% 00:00 - 00:00
CH 6	ON	OFF	X	CH6	100% 08:00 - 18:00	80% 00:00 - 00:00	50% 00:00 - 00:00	30% 00:00 - 00:00

SYS TIME	11:36	DEV NAME	Enter_Name_Here	EXT RDG	SYS MSG	Unsynchronized	Info	System	Run/Stop
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- 1 CHAN NO – Channel numbers for PWM control port 1 to 6
 LED STAT – LED lights ON or OFF status
 DIG SW – Digital light switch status display
- 2 CH1 – CH6 : Clickable to toggle ON/OFF for each LED light connected to that channel
 PIR STAT : Clickable to set which channel will be triggered by PIR function
 AREA/LOCATION : Clickable to change the name of each channel based on area or location it is located
 PWM & TIME SETUP (1 – 4) : Clickable to set PWM & TIME SETUP (1) – (4) for dimming & scheduled ON/OFF
- 3 Status display for LED 、 Digital Light Switch 、 Area/Location Name of each Channel 、 PWM & Time Setup for CH. 1- CH.6
- 4 Status display for System Time 、 Device Name 、 External Reading (optional) 、 System Message
- 5 System tool buttons for "Info" 、 "System Configuration" 、 "Run/Stop Program"