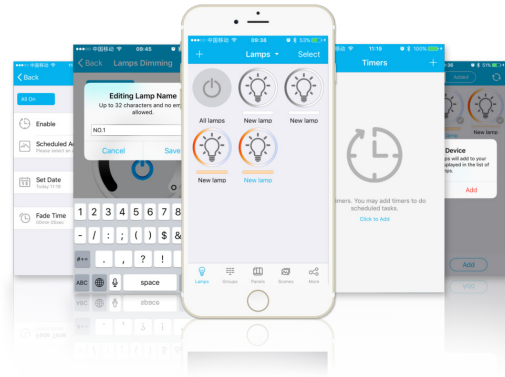# AMTEK Self-Powered Wireless Controls
BLUETOOTH

AMTEK

The **AMTEK Bluetooth-Based Lighting Controls** form a smart lighting system that is easily managed and operated via Apple's iOS and Android mobile apps.

SAVE MONEY

ENERGY SAVINGS
Businesses can reduce annual energy costs by 25% with updated controls.

FAST INSTALLATION
Avoid disrupting business operations by installing our controls quickly during off hours.

UNIQUE APPLICATIONS
Our wireless controls can be installed in places where wired controls cannot, creating new opportunities for saving.

GREEN ENERGY

ENERGY HARVESTING
Solar-power and motion sensors are designed to save energy by turning down lights automatically.

SELF-POWERED & WIRELESS
Our wireless switches and sensors are powered by kinetic and solar energy and do not require wiring.

ENERGY CODE COMPLIANCE
Our products comply with current government and industry energy codes DLC, California Title 24 and ASHRAE 90.1.

FLEXIBLE INTEGRATION

EASY CONFIGURATION
Android & iOS apps available for adjusting your lighting configuration.

WIRELESS IoT
AMTEK provides wireless solutions for EnOcean, ZigBee, and Bluetooth-powered IoT systems.

BUILDING MANAGEMENT SYSTEM INTEGRATION
Easy integration with your building management system using BACnet protocol.

SMART LIGHTING DIAGRAM

BT Power Pack

Occupancy Sensor

Wireless Switch

MOBILE APP FUNCTIONALITY

- Daylight harvesting
- Energy savings
- Time-clock scheduling
- Grouping
- High-end trim
- QR-code user & admin. access
- Occupancy sensing
- Personalized control

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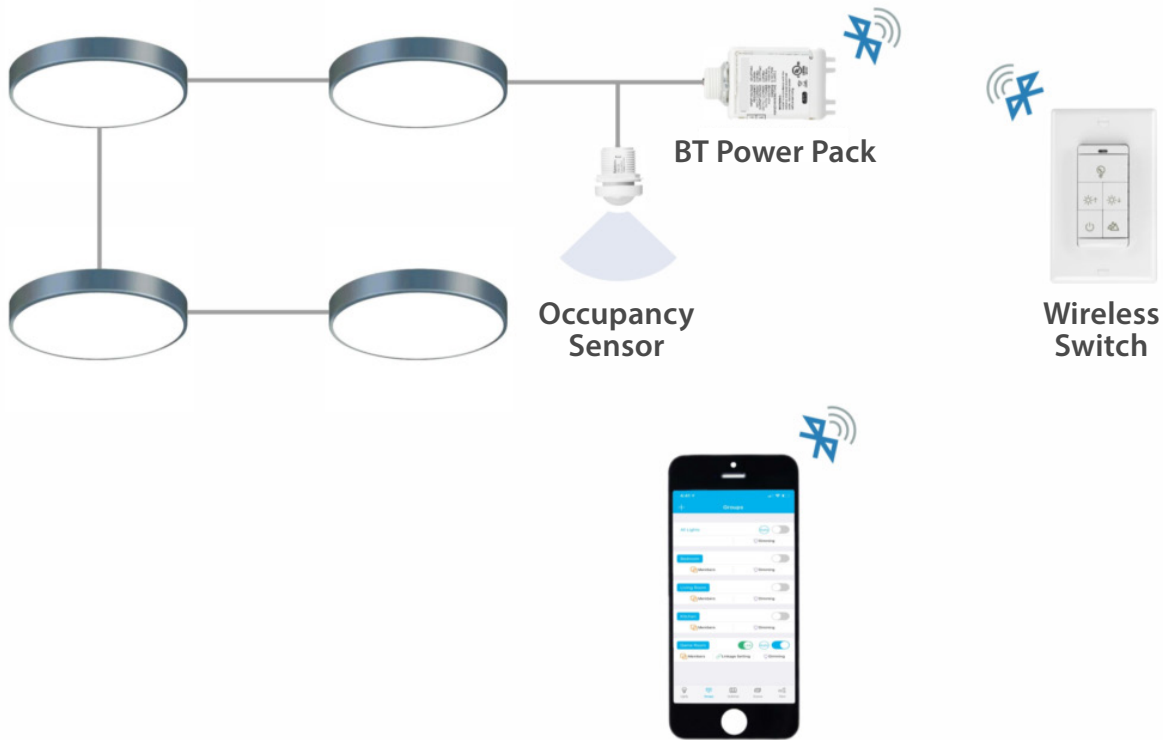*We Enlighten Your Life*
Nous Illuminons Ta Vie
Iluminamos Tu Vida

AMTEK CANADA ACI, Suite #200, 550 Sherbrooke West, Montréal, Québec, Canada, H3A 1B9

Tel: +1(514) 819-1653 | www.amtekgroup.com

FUNCTIONS & CAPABILITIES

DAYLIGHT HARVESTING

Automatically dims lights when enough daylight is present. This can save 10% to 60% percent in electricity costs.

ENERGY SAVINGS

Products combining features like ours do can result in cost savings of 60% or more. Because lights emit heat, these lighting controls can also reduce HVAC usage. For this reason, we can estimate that for every 3-W reduction in lighting power, there is a 1-W reduction in cooling load.

TIME-CLOCK SCHEDULING

Automatically dims or turns lights off at select times of the day. Reduces electricity costs by 10% to 35% by ensuring lights are not wasting energy when they are not needed.

GROUPING

Combines light fixtures into groups so that motion under any one fixture brightens or turns on lights for the entire group.

HIGH-END TRIM

All spaces do not need the full brightness of their light fixtures. For example: the human eye notices only a small difference between 100% and 80% brightness. Electricity usage and cost can be reduced by 20% or more by trimming light intensity to the appropriate level.

QR-CODE USER & ADMIN. ACCESS

Users' and/or admins' access to the system is secured through encryption, which can be shared through QR-code images. These can be emailed or printed so building occupants or technicians can easily access the system.

OCCUPANCY SENSING

Occupancy sensors automatically turn off or dim due to the lack of movement in a space. Bluetooth wireless technology allows sensors to be installed in minutes with no additional wiring. These are also an ideal solution for retrofit applications. Sensors can reduce lighting/electricity use from 15% to 60%.

INDIVIDUAL CONTROL

Our system allows users to control the full range of light dimming for lights directly over their workstations. This often results in energy savings of 10% or more while improving productivity, reading-eye strain and computer glare.

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BLUETOOTH WIRELESS WALL SWITCH STATION

BLUETOOTH AMI-WBWSS

COMMUNICATION	Bluetooth (2.4 GHz)
POWER SUPPLY	2 x AAA batteries (3V)
FLAME RATING	UL 94 V-0
WORKING HUMIDITY	≤ 90% RH
WORKING TEMP.	-10 to +45° C
WEIGHT	8.3 g.
DIMENSIONS	4.5" x 2.75" x 1.3" (115 x 70 x 33 mm.)

FEATURES

- Dimming capabilities
- Recalls 3 preset scenes
- One switch links with multiple groups
- Mounts on switch box or with surface-mount spacer

- Works with Bluetooth power pack & sensors
- Configures with mobile app
- Battery powered

The AMTEK Bluetooth Mesh Power Pack is a BLE-based smart lighting system. It has an app for both iOS and Android devices to manage and operate the BLE-smart lamps and devices by smart phone. The AMI-WBMPP-SC is best suited for small areas like classrooms, conference rooms and private offices. AMTEK wireless Bluetooth switches are compatible with this device.

BLUETOOTH MESH POWER PACK

	SINGLE CHANNEL AMI-WBMPP-SC	DUAL CHANNEL AMI-WBMPP-DC
SUPPLY VOLTAGE	120-277 VAC 50/60 Hz	120-277 VAC 50/60 Hz
MAX. CURRENT	3A 70 A Inrush current	3A 70 A Inrush current
DIMENSIONS	3.22" x 1.71" x 1.25"	3.22" x 1.71" x 1.25"
CCT TUNABLE	Yes	No
WORKING TEMPERATURE	-13° to +149°F (-25° to + 65°C)	-13° to +149°F (-25° to + 65°C)
CERTIFICATIONS	UL 8750, FCC Part 15, IC	UL 8750, FCC Part 15, IC

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INPUT VOLTAGE    120-277VAC
FREQUENCY        50/60Hz
INPUT CURRENT    2.6A Max
OUTPUT VOLTAGE   120-277VAC
OUTPUT CURRENT   2.5A Max
OUTPUT POWER     300W Max
AUX VOLTAGE      12VDC/0.2A
DIMMING          0-10V PWM
AUX&DIMMING TYPE CLASS 2
WARNING:
Install in accordance with the
national and local electrical
code. disconnect power
before servicing.
```

FEATURES

- Bluetooth for grouping, switch and app control
- Line voltage 0-10 V dimming and On/Off
- Advanced network control
  - ◊ High-end trim
  - ◊ Grouping w/ fixture-to-fixture BT mesh

- ◊ Scheduling with real-time clock
- ◊ Optional vacancy / occupancy sensor
- ◊ CCT-tunable option

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The **AMTEK AMI-WBMLFS** *is an advanced network control for light fixtures that uses Bluetooth mesh communication for fixture-to-fixture grouping, wireless switch communication and mobile-app-based commissioning. The fixture sensor is perfect for automatic lighting control in high or low bay applications with 2 lenses included for mount heights of 15-40 ft. or 7-15 ft. (2.5-15m.). Each unit includes a light sensor for daylight harvesting to minimize energy use when sufficient ambient light is available.*

BLUETOOTH MESH FIXTURE-MOUNTED MOTION & LIGHT SENSOR

BLUETOOTH AMI-WBMLFS

SUPPLY VOLTAGE	120, 240, 277 VAC 50/60 Hz
MAX. LOAD	6 Amps, 600 W for LED driver only; 0-10V sink 20 mA
MOUNTING HEIGHT	8-45 ft. (2.5 - 15 m.)
CERTIFICATIONS	UL8750 Safety, FCC Part 15, IP65 - Dry or Damp Location, Surge Protection L-N 1KV, L&N- PE 2KV
DIMENSIONS	3.91" x 4.03" x 2.07"
OPERATION TEMP.	-40 to ~115 ºF (-40 to +45ºC)
AMBIENT LIGHT LEVEL RANGE	30-2500 Lux

FEATURES

- iOS and Android app-based commissioning
- Scene recall
- Walk Test mode to confirm coverage area
- Line voltage 0-10 V dimming
- Advanced network control
- High end trim - adjusts maximum light level

- Scheduling: time-based on/off or scene recall
- Vacancy / Occupancy sensor to dim then turn off
- Fixture grouping with Bluetooth mesh wireless communication
- Daylight harvesting

BLUETOOTH PIR OCCUPANCY SENSOR

BLUETOOTH AMI-WBPOS

INFRARED SENSOR	Omni-directional quad element pyroelectric
DETECTABLE SPEED	1~10 ft./Sec. (0.3~3m./sec.)
DETECTION RANGE	40 ft.
DELAY TIME SETTINGS	First delay time setting 1-59 minutes Second delay time setting 0-59 minutes First delay dimming level 0-100%
OPERATING TEMP.	-40°F~158°F (-40°C~70°C)
DIMENSIONS	Diameter 1.76" x 2.1" length

FEATURES

- PIR 12-32 V 10 mA input
- Compact size fits into most applications

- Programmable group logic

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