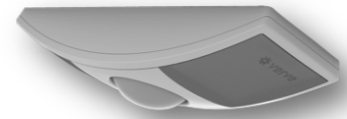# AMTEK Self-Powered Wireless Controls
SENSORS

AMTEK

AMTEK Self-Powered Wireless Sensors are powered by a small solar panel that eliminates the need for wires or batteries. They communicate with AMTEK controllers to control virtually any on/off device and can be used for temperature control, motion sensing, and more.

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.

CEILING/WALL-MOUNTED SELF-POWERED WIRELESS OCCUPANCY SENSOR

902 MHZ
AMI-WECOS

*The **AMTEK Ceiling/Wall-Mount Occupancy Sensor** senses motion over a 360-degree coverage area.*

FREQUENCY	902 MHz EnOcean RF transmitter
TRANS. RANGE	50-100 ft. (17-33 m.)
MOTION DETECTION RANGE	34 ft. (10 m.) diameter @ 10 ft. (3 m.) mounting height
MIN. OPERATION LIGHT	50 lux (for auto-off only)
CHG. TM. TO FULL	25 hrs. @ 200 lux
SUSTAINING CHG. TM.	3 hours per 24 hrs. @ 200 lux
MOTION TRANS. INTERVAL	2 minutes
UNOCCUPIED TRANS.	10 and 30 minutes since last motion detection
HEARTBEAT TRANS.	Default = disable / enable @ 1 hr. intervals
OPERATING LIFE IN DARKNESS	80 hours (after full charge)
OPTIONAL BATTERY LIFE	Continuous battery-free operation standard; Infrequent Bright Light: 20 yrs. (w/ 200 lux for 2 hrs./day, 7 days/wk.) Consistent Low Light: 15 yrs. (w/ 65 lux for 5 hrs./day 7 days/wk.) Total Darkness: 6.5 yrs.
ENOCEAN EQUIPMENT PROFILE	A5-07-01
DIMENSIONS	6.5" H x 2.36" W x 1.47" D (160 mm. x 60 mm. x 37 mm.)
MOUNTING HEIGHT	7-10 feet (2-3 m.) recommended
AGENCY COMPLIANCE	FCC: SZV-STM300U

WALL-MOUNTED SELF-POWERED WIRELESS OCCUPANCY SENSOR

902 MHZ
AMI-WEWMOS

*The **AMTEK Wall-Mounted Occupancy Sensor** covers entire rooms or walkways with its excellent motion-detection performance.*

FREQUENCY	902 MHz EnOcean protocol
TRANS. RANGE	50-100 ft. (17-33 m.)
MOTION DETECTION RANGE	50 ft. (15 m.) diameter
MIN. OPERATION LIGHT	50 lux (for auto-off only)
START UP CHARGE TIME FROM EMPTY	First motion transmission / linking = 5 min. @ 200 lux; motion LED blink; Light/Walk Test Modes = 1.5 hrs. @ 2000 lux.
CHARGE TIME TO FULL	25 hrs. @ 200 lux
SUSTAINING CHARGE TIME	3 hours per 24 hours @ 200 lux
MOTION TRANS. INTERVAL	2 minutes
UNOCCUPIED TRANS.	10 and 30 minutes since last motion detection
HEARTBEAT TRANS.	Default = disable / enable = 1 hr. intervals
OPERATING LIFE IN DARKNESS	80 hours (after full charge)
OPTIONAL BATTERY LIFE	Continuous battery-free operation standard; Infrequent Bright Light: 20 yrs. (w/ 200 lux for 2 hrs./day, 7 days/wk.) Consistent Low Light: 15 yrs. (w/ 65 lux for 5 hrs./day 7 days/wk.) Total Darkness: 6.5 yrs.
ENOCEAN EQUIPMENT PROFILE	A5-07-01
DIMENSIONS	6.5" H x 2.36" W x 1.47" D (160 mm. x 60 mm. x 37 mm.)
MOUNTING HEIGHT	7-10 feet (2-3 m.) recommended
AGENCY COMPLIANCE	902 Mhz Contains FCC: SZV-STM300U; 868 MHz: CE Certified; R&TTE conform; 315 MHz: Contains FCC: SZV-EOSC01 IC: 5713A-EOSC01; 928 MHz: Module inside conforms to ARIB STD-T108

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AMTEK Self-Powered Wireless Controls
SENSORS

The **AMTEK High-Ceiling/Wall-Mounted Self-Powered Wireless Occupancy Sensor** allows fine-tuned control of lights, temperature, and other loads by signaling when a space has been unoccupied for a set period of time. Because the sensor is wireless, there is no need to run additional wiring. Installation can be completed in a matter of minutes. The sensor is self-powered by harvesting energy from ambient light.

HIGH-CEILING/WALL-MOUNTED SELF-POWERED WIRELESS OCCUPANCY SENSOR
902 MHZ
AMI-WEHCOS

POWER SUPPLY (Optional)	Indoor light energy harvesting (default); Supplemental battery (CR2032) or 2-wire connector for external power or remote solar cell (3-5VDC)
FREQUENCY	902 MHz EnOcean RF transmitter
TRANS. RANGE	160 ft. (50 m.)
MOTION DETECTION RANGE	60 ft. (18 m.) diameter @ 33 ft. (10 m.) mounting height
START UP CHARGE TIME FROM EMPTY	First Motion Transmission/Linking = 5 min. @ 200 lux; Motion LED Blink Light/Walk Test = 1.5 hours @ 2000 lux
CHARGE TIME TO FULL	25 hrs. @200 lux
SUSTAINING CHARGE TIME	3 hours per 24 hours @ 200 lux
MOTION TRANS. INTERVAL	2 minutes
UNOCCUPIED TRANS.	10 and 30 minutes since last motion detection
HEARTBEAT TRANS.	Default = disable / enable = 1 hr intervals
OPERATING LIFE IN DARKNESS	80 hours (after full charge)
OPTIONAL BATTERY LIFE	Continuous battery-free operation standard; Infrequent Bright Light: 20 yrs. (with 200 lux for 2 hrs./day, 7 days/wk.) Consistent Low Light: 15 yrs. (with 65 lux for 5 hrs./day 7 days/wk.) Total Darkness: 6.5 yrs.
ENOCEAN EQUIPMENT PROFILE	A5-07-01
DIMENSIONS	6.5" H x 2.36" W x 1.47" D (160 mm. x 60 mm. x 37 mm.)
MOUNTING HEIGHT	15-40 feet (5-12.2 m.) recommended
AGENCY COMPLIANCE	FCC, IC, RoHS, CE, R&TTE

The **AMTEK Dimming Wireless Fixture-Mounted High-Bay PIR Sensor** attaches directly onto an already-existing fixture and provides automatic lighting control for high or low bay applications. PIR sensor lens options support mounting heights from 8 to 45 ft. (2.5-15m). Selectable modes allow motion sensor (with or without ambient light) hold-off. Each unit includes a light level sensor to prevent light from turning on when sufficient ambient light is available, as well as to operate the unit's dimming capabilities.

0-10V DIMMING WIRELESS FIXTURE-MOUNTED HIGH-BAY PIR SENSOR
AMI-WEHBFS

SUPPLY VOLTAGE	120, 240, 277 VAC 50/60 Hz
MAX. LOAD	10 Amps., 1200 W max for LED driver only
MOUNTING HEIGHT	Standard Lens: 8-12 ft, High Bay Lens 12-40 ft.
DIMENSIONS	L 4.03" W 3.91" H 2.08"
OPERATING TEMPERATURE	-40 to ~158 ºF (-40 to ~70ºC)
AMBIENT LIGHT LEVEL RANGE	30 - 2500 lux
APPROVALS	UL8750 Safety Regulations, IP66, FCC Part 15 Class B Surge Protection L-N 1KV, L&N- PE 2KV

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AMTEK Self-Powered Wireless Controls
SENSORS

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The **AMTEK Self-Powered Wireless Light Sensor** *saves time, energy, and money by avoiding the costly and time-consuming installation of hardwired daylighting controls. It saves energy by lowering the output of artificial light when daylight is present in a room, saving up to 60% of the energy. It also works in conjunction with wireless relays, dimmers, room and task on/off controllers and can integrate into systems using BACnet, RS-232, and Ethernet gateways. The sensor can be used in open-loop and closed-loop daylight-harvesting applications. It is RoHS compliant, so it can help buildings qualify for LEED credits and comply with International Green Construction Code Standard 189.1.*

SELF-POWERED WIRELESS LIGHT SENSOR

902 MHZ
AMI-WELS

POWER SUPPLY	Solar energy harvesting
MEASUREMENT RANGE/ RESOLUTION	0 … 1020 lux / 4 lux
TYPICAL ACCURACY	+-5 % at full scale / 68°F
MEASUREMENT INTERVAL	1 minute
TRANS. INTERVAL	Immediate if change > 50 lux versus last transmission; Heartbeat every 20 … 30 minutes (affected at random)
RF STANDARD	EnOcean 902 MHz
TRANSMISSION RANGE	80 ft. (25 m.)
DIMENSIONS	6.30" L x 2.36" W x 1.15" D (160 mm. x 60 mm. x 37 mm.)
WEIGHT	4.4 oz. (125 g)
MOUNTING POSITION	At the ceiling–close to ambient light source (window)
ENVIRONMENT	Indoor use only / 32° to 140° F (0° to 60° C) 20% to 85% relative humidity (non condensing)
AGENCY COMPLIANCE	FCC; IC; RoHS

The **AMTEK Wireless Window & Door Sensor** *maximizes the energy savings of heating and air conditioning systems by wirelessly providing the open-or-closed status of windows and doors. The sensor uses a magnet contact switch that is powered by a solar cell and communicates with a wide variety of AMTEK products. Energy waste can be reduced by 20% to 60% by disabling blowers and/or adjusting temperature set-points in HVAC systems when windows and doors are left open.*

SELF-POWERED WIRELESS WINDOW & DOOR SENSOR

902 MHZ
AMI-WEWDS

RANGE	15-60 feet (5-20 m.)
POWER SUPPLY	Integrated Solar Cell
SENSOR TYPE	Magnetic Reed Switch
FREQUENCY	EnOcean 902 MHz
ENOCEAN EQUIPMENT PROFILE	06-00-01
START-UP TIME WITH EMPTY ENERGY STORAGE	<2.5 min. @ 400 lux; 25° C
INITIAL OPERATION TIME IN DARKNESS	6 days if energy storage is fully charged
DIMENSIONS	3.86 x .62 x .81 inches (98.04 x 15.75 x 20.57 mm.)
OPERATING TEMPERATURE	-20 up to + 60° C
MOUNTING	Screws or double-sided tape
RADIO CERTIFICATION	FCC (United States) / IC (Canada)

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