



SHOP SENTRY®



Restaurants
Warehouses
Apartments
Businesses
Factories
Condos
Retail
Farms

PREMIER MONITORING SYSTEMS



A Better Way
INNOVATIONS, LLC



A Better Way
INNOVATIONS, LLC

**Our Ideas
work for you!**

It's not if---but how often!

Every business is going to suffer loss from equipment failures, employee errors, and unforeseen issues.

Shop-Sentry® is designed to monitor your operation and provide you with advanced notice of any pending problems.

Whether it's "warm" temperatures in your refrigerators, employees not shutting freezer doors, water leaks, backup sewage---we watch everything!

Our immediate Phone Call, Text Message, Email and Report's---is your life saver. We provide "real" Peace-of-Mind--not wishful thinking like inferior products.



#1: Our sensors see it!

#2: We send a signal to our control center.

#3: We call, text & email you--and take any special action you need--like turning things on or off!

Water Leak? We can turn the water off!

HOW IT WORKS!



80+ Sensors
Monitor Important Conditions.



Wireless Gateways
Relay Data to Software.



Software Choices
Get Remote Access to Dashboards / Alerts.

**REAL
"PEACE-OF-MIND"
NOT
WISHFUL THINKING!**



What does the Shop-Sentry® do?

The Shop-Sentry® Remote Monitoring System enables “things” to speak! Our “Wireless Sensors” send their signals to our “Gateways”, and our “Software” gives a “voice” to the IoT (Internet of Things) and allow businesses to leverage data, protect resource’s and save money! For example: “things” can speak up when conditions are met that indicate an asset is at risk.

The Shop-Sentry® system’s variety of sensors (over 80 different type) detect changes in variables, such as: temperature, water presence, door position, electrical current/voltages and more, to employ an autonomous wireless sensing solution that protects your bottom line.

ALERTS! It’s our alerts that make this so versatile! We use the data from your sensor’s in many forms, times & conditions. Each sensor can provide multiple alerts for different functions. We even monitor the battery, each sensors operation and other functions, to let you know if there is an issue with your system. We also offer controllers that can “turn thing’s” ON or OFF during an event--such as turning “off” your water main if a leak is detected.

Why is Shop-Sentry® the best?

The Shop-Sentry® system is one of the most advanced systems available--with features that go far beyond monitoring temperature’s. Compare the range & signal strength of our system to any “internet deal” or WiFi / Bluetooth system. They don’t compare! Don’t risk your future and hard earned dollars with inferior systems. Look at our features! Yes--we are VERY affordable!

FEATURES:



SUPERIOR WIRELESS RANGE

1,000 ft. non line of site through 12-14 walls.*



LONG BATTERY LIFE

10+ years powered by 2 AA Batteries**



ENCRYPT-RF™ SECURITY

Integrated security (256-bit exchange & AES-128 CTR).



ON-BOARD DATA MEMORY

Store up to 512 readings per sensor***



FUTURE PROOF

Over the air updates allow products to be updated remotely.



100% COMPREHENSIVE SOLUTION

No additional hardware or software are required.

*Wireless range may vary according to environment

**Battery life determined by sensor reporting & other variables

***10 min heartbeats = 3.5 days / 2 hr heartbeats = 42 days



Online Monitoring and Notification Software
(configure sensors, view data and set alerts via SMS text, email and/or voice calls)

WIRELESS RANGE COMPARISON

SHOP-SENTRY® RANGE 1000-1200 Ft.

Other wireless platforms

WiFi 300 Ft.

Bluetooth 33 Ft.

The ABW Shop-Sentry® System is able to go through walls, work through equipment and provide signals where most WiFi & Bluetooth units WILL NOT! Plus our system is supervised-which means we monitor the batteries & operation of your system 24/7 and report issues!

RESTAURANTS & FOOD SERVICE

Food safety and quality are top concerns in the food service industry. As restaurants face incredibly tight margins and intense competition on virtually every front, food spoilage and food-borne illness are significant threats to both budgets and public relations.

Advancements in the Internet of Things (IoT) technology can help restaurant managers meet food safety requirements so customers can keep coming back for more. See how Shop-Sentry® helps restaurateurs remotely monitor food temperature and facility operations 24/7 using innovative IoT Solutions.

SPOILER ALERT: The ROI is significant, considering the franchisee's restaurants could have lost tens of thousands of dollars in spoiled food. It's all easily managed using an online dashboard on a smartphone or computer. Ask for our Food Service Case Study.



PROPERTY MANAGEMENT & CONDOS

Property management companies offer the benefits of uniform policies, guaranteed services and amenities like timely facility maintenance. However, there can be a significant investment in time and resources to improve operational efficiencies in facilities while also delivering energy conservation strategies and increasing tenant standards for comfort and safety. It's much easier to handle daily operations of any size when you know what's happening with your facilities behind closed doors. Whether it's heating, ventilation, and air conditioning (HVAC) systems, plumbing, or appliances, sensors can tell you—virtually wherever you are—how all of them are working. Sensors can also send you an instant alert when there's a potential maintenance problem in your apartments. See how Shop-Sentry® can help you remotely monitor apartment complex operations 24/7. [Ask for our Property Management Case Study.](#)



SECOND HOMES - VACATION HOMES

It's exciting when you have another home as a perfect getaway for renters or your relaxing vacations. However, a home away from home can be a source of stress—especially if you don't have anyone or anything watching over it for you. Worry can increase when it's your rental property too. This is where a property management company and remote monitoring from the Internet of Things (IoT) can help alleviate second and vacation home ownership concerns. People can enjoy their properties more fully—even when they're not living in them—with a remote second home monitoring solution. A system of sensors can give property managers a better way to serve home owners by knowing the status of their properties in near real time. Read how ABW Innovations Shop-Sentry® can monitor everything in your property—temperatures, water leaks and more. [Ask for our Vacation Home Case Study.](#)



RETAIL STORES

The Internet of Things (IoT) is becoming more and more ubiquitous in retail to deliver a comprehensive customer experience and efficiently manage products. However, retail store managers shouldn't miss out on opportunities to optimize their retail facility operations using IoT innovations.

Store directors have a lot to track when it comes to serving customers and managing employees. And your to-do list can get even longer working to keep facilities running smoothly. So you need the IoT to streamline store management processes. You may have smart mirrors in the dressing rooms, smart shelves and racks in the aisles, and smart point-of-sale and beacon technologies, but you can also make your plumbing, HVAC system, and doors intelligent too. [Ask for our Retail Store Case Study and see how Shop-Sentry® can remotely monitor important functions in your store 24/7.](#)



SCHOOLS & CHURCHES

Whether public or private institutions, people expect school facilities to run efficiently and safely, providing comfortable classrooms for high-quality education. People can have similar expectations of churches because they believe those buildings are places of refuge and comfort. Unhealthy or malfunctioning heating, ventilation, and air conditioning (HVAC) systems, plumbing problems, and security issues can disrupt the learning environment for students, teachers, and churchgoers alike. Everyone from janitors and maintenance staff to property managers to principals can get help from the Internet of Things (IoT) to ensure facilities run their best for the people who need them most.

An IoT sensor system can help you keep facilities up and running and know the status of your schools and churches in near real time. [Ask for our School & Church Case Study.](#) [Read how Shop-Sentry® can help you remotely monitor properties 24/7.](#)

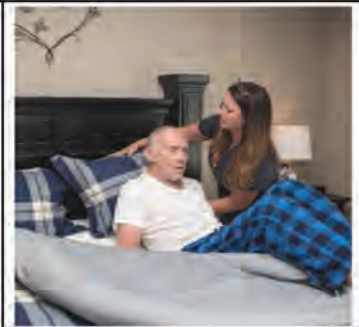


ELDERLY MONITORING

Personal care for a loved one can be one of the most difficult decisions many families face. However, concerns can also be compounded when the care of older adults isn't a one-time decision. Older adults typically progress through a spectrum of care as they age from independent living to in-home care to assisted living.

Smart devices in the Internet of Things (IoT) can be an unobtrusive lifeline between senior adults and their children and caregivers. No matter where seniors are on the care spectrum, remote monitoring solutions can help their loved ones and care providers know if they need attention or added care.

[Ask for our Adult Care Case Study.](#) [Read how a system of IoT sensors from ABW Innovations can give children and caregivers of older adults a better way to know the status of their parents and patients and environmental conditions 24/7.](#)



ANIMAL CARE

Like their human counterparts, police and military dogs / canines (K9s) are highly trained in law enforcement activities. Law enforcement K9s require and deserve the same level of health and care that their trainers and handlers need. These primary welfare essentials include proper On & Off Duty housing, feeding, and in-vehicle kennels. Animal Owners that use kennels also demand and appreciate prime care for their animals while in the care of animal kennel's and housing facilities.

But, to improve or maintain the proper levels of care for K9 units, pets and zoo animals, you have to know what's happening with critical elements of that care. Internet of Things (IoT) technologies in the form of sensors collecting and delivering data and software offering that data, at times instantly, can keep you in the know regarding your animals well-being.

[Ask for our Animal Care Case Study and see how ABW Innovations can provide the](#)



FARMS

In many cases, the farm today is not simply a "mom & pop" operation. Farms today demand constant attention and oversight--to insure that all of their systems are operating properly and being maintained. Shop-Sentry® by ABW Innovations can provide a wide variety of IoT devices to monitor your operation. From temperatures, water or liquid sensing, fluid levels, supply inventory, movement, open doors or windows, pressures---we can do it.

With over 80 different sensors, we can provide the most advanced means to be "in touch" with your farm operation. All data can be seen anytime from your smartphone, PC or other web access portal. We can provide automation to your farm that you have only dreamed of!



MANUFACTURING & PRODUCTION

There's a variety of reasons manufacturing machines malfunction or ultimately break down. Some of those causes can be attributed to human error. Still, many reside in or on the equipment, which requires attentive performance management to maintain high uptime and overall equipment effectiveness (OEE). Predicting and scheduling maintenance with the help of condition-based monitoring is crucial to prevent downtime throughout manufacturing facilities. An orchestrated balance of predictive and preventive maintenance using Internet of Things (IoT) technologies can allow manufacturers to track machine health, status, and performance or OEE in near real time. Sensors also send you an instant alert when there's a machine maintenance problem. The innovative foresight will help you reduce unexpected breakdowns, capital and operating expenses, plus plan maintenance around production schedules. [Ask for our Manufacturing & Production Case Study. See how Shop-Sentry® can help you remotely monitor manufacturing operations 24/7.](#)



SERVER & DATA CENTERS

Cooling issues and water leaks are two of the top causes of down time for data centers and server rooms. It's no secret that these expensive facilities—filled with server hardware and networking equipment—must run within critical temperature and humidity ranges. If these essential measurements rise or drop into dangerous territory—the worst-case scenario is for capital and operating expenses to skyrocket. That's why data centers are typically heavily equipped with redundant safety measures—like backup generators and climate controls, smoke detectors, and several high-end surge protectors. The smaller siblings of data centers sometimes aren't this lucky—office building server rooms can lack some of these technical luxuries. Monitoring systems to help prevent water damage and provide backup temperature controls shouldn't be overlooked for data centers and on-premises server rooms. Downtime expenses from overheated or flooded servers can potentially cost thousands of dollars. [See how Shop-Sentry® has you covered!](#)



PHARMACEUTICAL & MEDICINE

State-of-the-art refrigerators and freezers are vital in the biotech and pharmaceutical industry. Lives and money are on the line, so they have to run right for critical contents like vaccines to stay safe. Any reading outside recommended ranges for regulated inventory can be a costly temperature excursion event, possibly requiring product purge. To maintain U.S. Food and Drug Administration (FDA) compliance, biotech companies must store and transport their products in strictly controlled environments and cold-chain systems. [Ask for our ABW Pharmaceutical Case Study and see how Shop-Sentry® Remote Monitoring Solutions helps biotech and pharmaceutical leaders remotely monitor temperature and facility operations 24/7.](#)



HOTELS & HOSPITALITY

The hospitality industry's customer experience (CX) can be complex as it seeks to serve customers through food services, lodging, travel, entertainment and events, and recreation. However, there are common elements across every hospitality business that contribute to an ideal CX. One common and critical element is energy optimization. Managing energy consumption and performance for optimal guest comfort directly affects a hospitality CX—especially for hotels and resorts. Of course, energy savings is always a welcome guest as long as they maintain the careful balance between customer satisfaction, conservation, and cost justification. Heating, ventilation, and air conditioning (HVAC) monitoring using Internet of Things (IoT) technologies is key to improving energy use, predictive maintenance, and cost savings for hospitality businesses. [Ask for ABW's Hotel Case Study and see how ABW's Shop-Sentry® can help you remotely monitor hospitality facility operations 24/7.](#)



REAL ESTATE & VACANT PROPERTIES

Many real estate agents build their business helping banks exit vacant, distressed, and foreclosed inventory. A significant reason these listing agents succeed is their expertise in providing added value to bank asset managers as they work to list, manage, and sell non-performing assets. On this two-way street of foreclosed property selling—agents who show they can maintain and drive assets to sell typically get more to move. Major roadblocks for banks and listing agents can be the time and costs involved in maintaining properties and preventing problems. For example, issues that arise from trespassing and water or temperature damage can be costly. This is where the Internet of Things (IoT) can help. An IoT sensor system can help you know the status of vacant, foreclosed commercial and residential properties in near real time. [Ask for our Real Estate & Vacant Property Case Study--and see how Shop-Sentry® can help you remotely monitor](#)



GREENHOUSE

Commercial greenhouses make up a massive and growing worldwide industry. Like any business, reducing overhead costs, managing facilities and equipment, integrating technology, and streamlining operations, can all be challenges for managers. But to stay competitive, commercial greenhouse managers need to be on the leading edge of production and facility operations.

[Ask for ABW's Greenhouse Case Study and see how Shop-Sentry® helps commercial growers remotely monitor climate controls and facility operations 24/7.](#)



STORAGE FACILITIES

Running a storage facility venture can be similar to any other business by requiring operations management, staffing and training, marketing and sales, maintenance, customer service, and more. All of these responsibilities are essential to deliver an exceptional customer experience and keep a self-storage business growing. In addition to keeping these crucial business operations humming, adding value with a product and service that's a win-win for facility owners and customers can create valuable customer loyalty. Offering comprehensive insurance coverage for renters' belongings can sometimes fill this value-add need. However, insurance is often not viewed as a customer benefit because of possible loopholes, lack of coverage, and added expenses. Sensors connected to the Internet of Things (IoT) that monitor water leaks, access, temperature, and more can be a welcome option for renters to gain more peace of mind about remotely stored furniture, household goods, valuables, and keepsakes. [Ask for ABW's Storage Facilities Case Study and see how Shop-Sentry® can help you and your renters remotely monitor storage unit facilities 24/7.](#)



COMMERCIAL HVAC SYSTEMS

Is there ever a good time to handle HVAC system repair and replacement? Yes—especially when it's expected and planned. When you're managing commercial property or corporate facilities, it can be overwhelming to face aging systems and maintenance surprises without a reliable monitoring solution. To continually provide the most comfortable conditions for building occupants, facility and property managers must know the ins and outs of HVAC system performance at a moment's notice.

[Ask for ABW's Commercial HVAC Case Study to see how Shop-Sentry® can help you remotely monitor HVAC systems and facility operations 24/7.](#)



We can provide systems for any operation. Call us today to discuss your needs.

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Temperature Sensors

Standard Temperature Sensor		
<p>The ABW Wireless Temperature Sensors uses a type NTC thermistor to measure temperature. The sensor outputs the ambient temperature in degrees Fahrenheit. The sensor is accurate to $\pm 1^\circ\text{C}$ ($\pm 1.8^\circ\text{F}$). Increased accuracy to $\pm 0.25^\circ\text{C}$ ($\pm 0.45^\circ\text{F}$) can be accomplished with user calibration. Longer probes available for this product.</p>		
Battery / Enclosure		Part Number
AA		ABW-W2-TS-ST-NL
Industrial		ABW-IN-TS-ST-NL



High Temperature Sensors		
<p>ABW's Wireless High Temperature Sensors use an RTD to accurately measure temperatures from -50°C to $+370^\circ\text{C}$. The solution is perfect for high temperature critical applications such as ovens, heaters, furnaces and boilers. Longer probes available for this product.</p>		
Battery / Enclosure		Part Number
AA		ABW-W2-TS-HT-L03-NL
Industrial		ABW-IN-TS-HT-LOE-NL



Low Temperature Sensors		
<p>ABW's Low Temperature Sensors use an RTD to accurately measure temperatures from -200°C to $+162^\circ\text{C}$. This solution is recommended for medical grade coolers that cool at temps colder than -40C, cryogenic applications, as well as standard freezers and refrigerators. Longer probes available for this product.</p>		
Battery / Enclosure		Part Number
AA		ABW-W2-TS-LT-LOE-NL
Industrial		ABW-IN-TS-LT-L03-NL



Duct Temperature Sensors		
<p>ABW's Wireless Duct Temperature Sensors in commercial, enterprise, and industrial-grade housings are available for duct monitoring. Each duct temp sensor features a probe temperature range of -40°C to $+150^\circ\text{C}$ (-40°F to $+302^\circ\text{F}$) and an NTC type thermistor with UL listed plenum cable for superior accuracy.</p>		
Battery / Enclosure		Part Number
AA		ABW-W2-TS-DT-L08-NL
Industrial		ABW-IN-TS-DT-L08-NL



Digital Temperature Sensor

ABW's Digital Temperature Sensor has a range of -40F to +257F (-40C to +125°C) to support cold food storage, clinical vaccine storage, research labs, and other health-related fields.

Battery / Enclosure	Part Number
AA	ABW-W2-TSSD-L03-NL



Humidity & Temperature Sensors

Humidity & Temperature Sensor

ABW's Wireless Humidity / Temperature Sensors allow you to monitor the relative humidity & Temperature of the air within a room or enclosure. This solution is ideal for monitoring humidity within greenhouses, industrial spaces, museums, saunas, refrigerators/freezers and humidors. They can also be used for residential applications such as controlling mold, mildew, or dust mites.

Battery / Enclosure	Part Number
AA	ABW-W2-HU-RH-NL
Industrial	ABW-IN-HU-RH-NL



Open / Closed Sensor

ABW's Wireless Open/ Closed sensors provide information on the status of doors, windows, cabinets, etc. Know if a building or area is being accessed when it should not be, or if a door or window has been left open.

Battery / Enclosure	Part Number
AA	ABW-W2-OC-ST-NL
Industrial	ABW-IN-OC-ST-NL



Infrared Motion & Occupancy Sensors

Infrared Motion Sensor

Detect motion by people or animals in virtually any area or room up to 15 feet and within an 80° angle. The ABW Wireless PIR Motion Sensors use passive infrared (PIR) technology to detect heat signatures to augment facility security, protect assets, and optimize building services through usage data. A wide-angle option even tracks a broader view of 110° to give you a good look into what's happening at your facilities.

Battery / Enclosure	Part Number
AA	ABW-W2-MS-IR-NL
AA-WIDE ANGLE	ABW-W2-MS-IR-WA-NL



Infrared Motion+ Sensor

Monitor movement, ambient temperature, and relative humidity (RH) with the three in-one ABW's Wireless Motion+ Sensor. The easy-to-install multi-sensor can alert facility managers about three essential conditions in virtually any environment. Measure motion up to 15 feet and within an 80° angle. Track temperature between - 0°F to +257°F (-40°C to +125° C). Monitor up to 100% RH with a scientific-grade element.

Battery / Enclosure	Part Number
AA BLACK	ABW-W2-MS-IRH-NL
AA WHITE	ABW-W2-MSIR-WE-NL



AC Current Meters

20 Amp AC Current Meter

This low power, 20 Amp AC Current Meter remotely audits power consumption. The electric power draw of servers, vending machines, or workout machines can all be monitored using this current transducer.

Battery / Enclosure	Part Number
AA	ABW-W2-CM-020-NL
Industrial	ABW-IN-CM-020-NL



150 Amp AC Current Meter

Remotely monitoring your business with a 150 Amp AC Current Meter opens up many possibilities. This is enough to measure the power consumption of server systems and current used by low to medium power industrial equipment.

Battery / Enclosure	Part Number
AA	ABW-W2-CM-150-NL
Industrial	ABW-IN-CM-150-NL




500 Amp AC Current Meter


A one-phase high power 500 Amp AC Current Meter is ideal for measuring commercial generators' power consumption, heavy duty industrial equipment, or main breakers in industrial and commercial breaker panels.


Battery / Enclosure	Part Number
AA	ABW-W2-CM-500-NL
Industrial	ABW-IN-CM-500-NL




3-Phase AC Current Meters

20 Amp 3-Phase Current Meter			
<p>Incorporate this 20-amp Three-Phase, revenue grade device into facilities relying on powerful devices and systems, such as machine shops. Remotely monitor power consumption to track motor health or power system faults. Monitor min/max RMS current, duty cycle of each phase combined amp hours, and other metrics.</p>			
Battery / Enclosure		Part Number	
AA		ABW-W2-MS-IRH-NL	
INDUSTRIAL		ABW-W2-MSIR-WE-NL	

150 Amp 3-Phase Current Meter			
<p>Remotely monitoring your business with a 150 Amp AC Current Meter opens up many possibilities. This is enough to measure the power consumption of medium to heavy duty three-phase systems: environmental chambers, very large HVAC systems, or medium and heavy duty industrial motors.</p>			
Battery / Enclosure		Part Number	
AA		ABW-W2-CM-020-NL	
Industrial		ABW-IN-CM-020-NL	

500 Amp 3-Phase Current Meter			
<p>Use this sensor and be alerted about imbalances or power faults. The sensor uses 3 x 0-500 amp current transducers to monitor the main power for commercial buildings.</p>			
Battery / Enclosure		Part Number	
AA		ABW-W2-CM-150-NL	
Industrial		ABW-IN-CM-150-NL	

Light Meters

LUX Light Meter			
<p>ABW's Wireless Lux Light Meters monitor light intensity from (0-83,000 lux) indoors. The ABW Lux Light Meter helps protect valuable assets like artifacts, pharmaceuticals, and food ingredients from excessive light exposure and improve security system lighting.</p>			
Battery / Enclosure		Part Number	
AA		ABW-W2-CM-500-NL	
Industrial		ABW-IN-CM-500-NL	

PAR Light Meter		
<p>The scientific-grade ABW Wireless Photosynthetically Active Radiation (PAR) Light Meter measures the light spectrum (389 to 692 nanometers) that directly affects plant health and growth. Ideal for agritech operations, the PAR Light Meter helps growers monitor the performance of grow lighting systems to give crop canopies the light needed for photosynthesis.</p>		
Battery / Enclosure		Part Number
INDUSTRIAL		ABW-IN-LS-PAR-NL



Dry Contacts, Buttons & Counters

Dry Contact Sensors		
<p>ABW's Wireless Dry Contact sensor detects when there is contact between the two wired end points. It can easily be integrated into existing switches or contact plates. When the sensor detects contact between the two end points, it will immediately turn on the RF radio and transmit the data to the wireless gateway and ABW Monitoring / Notification System.</p>		
Battery / Enclosure		Part Number
AA		ABW-WS-DC-CF-L01-NL
Industrial		ABW-IN-DC-CF-L01-NL



Button Press Sensor		
<p>Need help providing swift customer service or deploying a large-scale sensor network? Instant alerts from ABW's Wireless Button Press Sensors support you by streamlining sensor deployment and expediting customer service requests. Also available with other type switches, i.e., panic buttons, hidden switches.</p>		
Battery / Enclosure		Part Number
AA		ABW-9-W2-TS-ST-NL




Pulse Counters		
<p>The ABW Wireless Pulse Counter can be connected to the pulse output of a system (water meter, power meter, etc.) to count the number of actuations within a given time frame. The wireless pulse counter is an electronic counter capable of counting passive (open/closed switch) or active (up to +15 VDC) pulses.</p>		
Battery / Enclosure		Part Number
AA		ABW-W2-PC-01-NL
Industrial		ABW-IN-PC-01-NL




Water Detection Sensors


Water Detection Puck			
Housed in a vulcanized hockey puck, this submersible sensor detects water's presence (or non-presence). Drop this sensor nearly anywhere to monitor for leaks / spills, e.g., production, manufacturing, or building maintenance.			
Battery / Enclosure		Part Number	
AA-BLACK		ABW-9-PK-WS-PS-NL	
AA-WHITE		ABW-9-PK-WS-PS-WT-NL	




Water Detection Sensors			
These popular sensors detect the presence (or non-presence) of non-combustible liquids (e.g., water). Deploy in such applications as sump pump monitoring, water heater drip pan monitoring, or between dry wall and sub flooring.			
Battery / Enclosure		Part Number	
AA		ABW-W2-WS-WD-L03-NL	
Industrial		ABW-IN-WS-WD-L03-NL	



Water Detector Plus			
The Wireless Water Detect Plus Sensor employs a wall or surface-mountable probe at the end of a 3' lead to detect water's presence (or absence). The probe is often used in sanitation or process applications to detect levels in reservoirs or vats of non-combustible liquid.			
Battery / Enclosure		Part Number	
AA		ABW-W2-WS-WP-L03-NL	
INDUSTRIAL		ABW-IN-WS-WP-L03-NL	




Rope Water Sensor			
The ABW Wireless Water Rope Sensor detects the presence of water anywhere along the surface of the rope. The sensor comes with 10 feet of water rope. Additional 10 ft. sections are available and can be connected up to 100 feet.			
Battery / Enclosure		Part Number	
AA		ABW-W2-WS-WR-NL	
Industrial		ABW-IN-WS-WR-NL	




Interface Meters


20mA Interface Current Meter			
Easily update existing scientific or industrial sensors to wirelessly collect process data. Remotely monitor current transducers, as well as oxygen, pH, magnetic flow sensors, and more.			
Battery / Enclosure		Part Number	
AA		ABW-W2-MA-020-NL	
INDUSTRIAL		ABW-9-IN-MA-020-NL	




0-5 VDC Interface Volt Meter			
Easily monitor potential differences (voltage) between two electrical points. Use turnkey voltage meters to retrofit common industrial sensors, monitor batteries, renewable energy sources and more			
Battery / Enclosure		Part Number	
AA		ABW-9-W2-VM-005-NL	
Industrial		ABW-IN-VM-005-NL	



0-10 VDC Interface Volt Meter			
Add turnkey Wireless Voltage Meters to commonly used industrial sensors and remotely monitor the voltage between two points. Get data from previously "dumb" devices to optimize operations.			
Battery / Enclosure		Part Number	
AA		ABW-9-W2-VM-010-NL	
INDUSTRIAL		ABW-9-IN-VM-010-NL	




Thermocouple Sensor			
The ABW Wireless Thermocouple is available with either a hardwired thermocouple or a K-Type connector (for supporting various thermocouple types and ranges) to measure high temperature applications. The hardwired thermocouple option measures temperatures from -100C (-148F) to 400C (752F).			
Battery / Enclosure		PROBE	K-TYPE CONNECT
AA		ABW-9-W2-TS-TC-HW-NL	ABW-9-W2-TS-TC-KP-NL
Industrial		ABW-9-IN-TS-TC-HW-NL	ABW-9-IN-TS-TC-KP-NL




Voltage Detection


200 VDC Voltage Meter			
Integrate a Wireless 200 VDC Voltage Meter to monitor the electrical status of items you depend on, like industrial lift trucks, solar PV panels, and power banks. Remotely monitor status and operation.			
Battery / Enclosure		Part Number	
AA		ABW-9-W2-VM-200-NL	
INDUSTRIAL		ABW-9-IN-VM-200-NL	




500 VAC Voltage Meter			
Wireless 500 VAC VDC Voltage Meter to monitor the electrical status of items or systems you depend on. Remotely monitor status and operation.			
Battery / Enclosure		Part Number	
AA		ABW-9-W2-VM-500-NL	
Industrial		ABW-9-IN-VM-500-NL	



200 VDC Voltage Detection Sensor			
This Wireless 200 VDC Voltage Sensor monitors the on/off status of equipment, machines, or battery levels. Track power sources up to 200 VDC for industrial vehicles, ATVs, adapters, PV solar equipment and more.			
Battery / Enclosure		Part Number	
AA		ABW-9-W2-VD-200-NL	
INDUSTRIAL		ABW-9-IN-VD-200-NL	




500 VAC Voltage Detection Sensor			
Wirelessly monitor voltage for critical equipment and systems up to 500 VAC. Keep an eye on sprinkler systems, HVAC, power couplings, and sump pumps. Know about electrical faults and act quickly to keep business moving.			
Battery / Enclosure		Part Number	
AA		ABW-9-W2-VD-500-NL	
Industrial		ABW-9-IN-VD-500-NL	




Accelerometers

G-Force Snapshot Accelerometer			
<p>The G-Force Snapshot sensor activates at a set time interval (defined by user) and measures g-force along X, Y, and Z axes. Primary use is as an inclinometer or tilt sensor.</p>			
Battery / Enclosure		Part Number	
AA		ABW-9-W2-AC-GS-NL	
INDUSTRIAL		ABW-9-IN-AC-GS-NL	




G-Force Max-Avg Accelerometer			
<p>The G-Force Max/Avg sensor measures the maximum and average g-force values along X, Y, and Z axes. Custom Delta values allow for the user to set thresholds which, when exceeded, will trigger the sensor to report in immediately. Configurable data rates allow for more samples to be collected for every measurement with higher data rates resulting in faster reaction time. The data reported is useful for tracking periodic motion and event detection.</p>			
Battery / Enclosure		Part Number	
AA		ABW-9-W2-AC-GM-NL	
Industrial		ABW-9-IN-AC-GM-NL	




Vibration Sensors


Vibration Meter			
<p>The vibration meter reports data as speed (mm/s) and frequency (Hz) on all three axes, and how long the sensor was measuring during the interval. Measurement methods are: Peak acceleration RMS, peak velocity RMS, and true RMS.</p>			
Battery / Enclosure		Part Number	
AA		ABW-9-W2-AC-VM-NL	
INDUSTRIAL		ABW-9-IN-AC-VM-NL	




Advanced Vibration Meter			
<p>The Advanced Vibration Meter uses an accelerometer to measure vibration and frequency on three axes. The sensor reports vibration (acceleration, velocity, displacement, or acceleration peak), frequency (Hz/RPM), and crest factor on all three axes. It also reports duty cycle (how much of the report interval that vibration was present), and temperature.</p>			
Battery / Enclosure		Part Number	
AA		ABW-9-W2-AC-ADV-NL	
Industrial		ABW-9-IN-AC-ADV-L10-NL	





Tilt Sensors

Tilt Detection Sensor				
<p>With a measurement range of 0–180° and accuracy of 0.5°, this sensor instantly reports (in degrees) when movement exceeds preset limits. If a guard arm is breached, the tilt detect sensor sends an alert via a text, email, or call. The device can sense whether it is “Up,” “Down,” and “Stuck.” Any movement between these regions will be recorded.</p>				
Battery / Enclosure		Part Number		
AA		ABW-9-W2-AC-TT-NL		
INDUSTRIAL		ABW-9-IN-AC-TT-NL		


Tilt Sensor				
<p>Better understand your operations, machine health, or structure status by collecting inclination data or tracking pitch and roll with ABW's Wireless Tilt Sensors. If a tilt sensor detects a deviation from your preset limits during measurement, an alert is issued via a text, email, or call.</p>				
Battery / Enclosure		Part Number		
AA		ABW-9-W2-AC-TL-NL		
Industrial		ABW-9-W1-AC-TL-NL		


Pressure Meters


50 PSIG Pressure Meters				
<p>ABW's Wireless 50 PSIG Pressure Meters keep lab managers, field service engineers, and other professionals connected to processes and machinery. If line pressure deviates from user-set thresholds, this pressure sensor instantly alerts the user via a text, email, or call.</p>				
Battery / Enclosure		Part Number		
AA		ABW-9-W2-PS-050-NL		
INDUSTRIAL		ABW-9-IN-PS-050-NL		

300 PSIG Pressure Meters				
<p>Indispensable to facility managers, fabricators, and legacy machine operators, ABW's 300 PSIG Wireless Pressure Meter remotely monitors line pressures (gas, liquid, or vapors). If pressure exceeds user-defined limits, the user receives an alert via an email, call, or text.</p>				
Battery / Enclosure		Part Number		
AA		ABW-9-W2-PS-300-NL		
Industrial		ABW-9-IN-PS-300-NL		


Gas Detection Sensors

Carbon Monoxide (CO) Sensor			
This unique battery-powered sensor monitors job sites, offices, and residential complexes for carbon monoxide (CO). Within a small footprint, the MEMS-based device packs a 0–1,000 PPM measurement range and automated data logging.			
Battery / Enclosure		Part Number	
AA		ABW-9-W2-GS-C1-NL	


Carbon Dioxide (CO2) Sensor			
Trusted by facility managers, this MEMS-based sensor monitors CO2 levels in the air. Get an alert if CO2 levels surpass preset limits. It's used to protect indoor air quality in greenhouses, marine vessels, and HVAC systems.			
Battery / Enclosure		Part Number	
AA		ABW-9-W2-GS-C2-NL	


Hydrogen Sulfide (H2S) Gas Sensor			
This safety sensor tracks the presence of H2S gas, which is toxic and flammable. Use to safeguard workers in oil / gas production, wastewater treatment, utilities, and other hazardous areas.			
Battery / Enclosure		Part Number	
AA		ABW-W2-GS-H2S-NL	


Resistance Sensor

Resistance Sensor			
These sensors read the resistance across a resistive load up to 250K Ohms and are meant to connect to passive devices only.			
Battery / Enclosure		Part Number	
AA		ABW-9-W2-RS-ST-L03-NL	
Industrial		ABW-9-IN-RS-ST-L03-NL	


Air Sensors

Air Quality Sensor			
<p>This mount-and-monitor device measures particulate matter that's coarse (PM10), fine (PM2.5), and ultra-fine (PM1) inside mines, production facilities, commercial kitchens and facilities, as well as business buildings. This unit is powered by line-power and has a battery backup.</p>			
Battery / Enclosure		Part Number	
AA		ABW-9-W2-AQ-P25A-LPO-NL	


Air Velocity Sensor			
<p>The Air Velocity Sensor measures the pressure difference between two input ports, as well as ambient temperature and altitude to determine airflow speed in a system. Use in sensitive areas, e.g., hospitals and clean rooms.</p>			
Battery / Enclosure		Part Number	
AA		ABW-9-W2-PS-AV-LPO-NL	
INDUSTRIAL		ABW-9-IN-PS-AV-NL	

Differential Air Pressure Sensor			
<p>This sensor measures the pressure difference between its two ports. Ideal for food service, healthcare, and academia. Common applications include clean rooms, pharmaceutical production, commercial kitchens, and HVAC or applications where negative air pressure monitoring is required.</p>			
Battery / Enclosure		Part Number	
AA		ABW-W2-PS-DP-LPO-NL	
INDUSTRIAL		ABW-9-IN-PS-DP-NL	


Vehicle Detection

Vehicle Detection Sensor			
<p>This easy-to-deploy sensor detects vehicle presence, counts traffic, and tracks the time a vehicle is parked. Ideal for fleet management, parking garages, service centers, curbside retail, and more.</p>			
Battery / Enclosure		Part Number	
INDUSTRIAL		ABW-9-IN-VS-TT-NL	


Ultrasonic Ranging Sensors

Ultrasonic Ranging Sensor				
<p>The Enterprise (AA)-grade remote monitoring solution measures the distance between itself and objects in its path. Use for liquid-level detection, inventory status, object detection and other indoor or outdoor applications. The Industrial Version is available in two version--remote cone & mounted cone. We also offer a variety of other ultrasonic sensors for monitoring. Call us for details.</p>				
Battery / Enclosure		Part Number	*Ask about desired Cone Type.	
AA		ABW-9-W2-US-ST-NL		
INDUSTRIAL		ABW-IN-US-IN-MPL-PA-NL		


Food Probe

Food Probe				
<p>This sensor measures the pressure difference between its two ports. Ideal for food service, healthcare, and academia. Common applications include clean rooms, pharmaceutical production, commercial kitchens, and HVAC or applications where negative air pressure monitoring is required.</p>				
Battery / Enclosure		Part Number		
AAA		ABW-9-W2-TS-FP-NL		

Propane Level Sensor

Propane Tank Level Sensor				
<p>Remotely monitor propane levels from anywhere via a smartphone or PC. This turnkey propane sensor works with Sr & Jr R3D® Remote Ready gauges. Prevent unnecessary in-the-field trips and maintain customer satisfaction.</p>				
Battery / Enclosure		Part Number		
INDUSTRIAL		ABW-9-IN-HE-MG-NL		


Soil Moisture Sensor

Soil Moisture Sensor				
<p>Get critical insights from your soil about how well you water with the ABW Wireless Soil Moisture Sensor. It's perfect for measuring soil water tension (within a range of 0 to 240 centibar (cb) or kilopascal (kPa)) and temperature (-40°C to 125°C) -40°F to 257°F. Improving irrigation scheduling and water conservation is easier because you'll know when and where to water your crops more precisely.</p>				
Battery / Enclosure		Part Number		
INDUSTRIAL		ABW-IN-WS-WM-L05-NL		


GATEWAYS

*At least (1) Gateway is needed per system. Call with any questions


ETHERNET GATEWAY		
<p>ABW's Ethernet Gateway allows your ABW wireless sensors to communicate with the ABW Portal-Online Sensor Monitoring & Notification System without a PC. Simply provide power and plug the gateway into an open Ethernet network port with an internet connection.</p>		
Battery / Enclosure		Part Number
COMMERCIAL		ABW-9-EGW-CCE-NL




4G LTE CELLULAR GATEWAY		
<p>Our 4G LTE Cellular Gateways are based on a 4G LTE CAT-M1/NB1 wireless and integrates with our base station node (BSN) for use with ABW's sensors. These are great for locations requiring higher security or do not have access to internet service.</p>		
Battery / Enclosure		Part Number
COMMERCIAL		ABW-9-LTE-CCE-ND-NL
INDUSTRIAL		ABW-9-LTE-IN-ND-NL



ADVANCED "EDGE" GATEWAY		
<p>The Advanced "EDGE" Gateway aggregates data from feature rich ABW's wireless sensors to mainstream cloud providers such as Amazon AWS, Google Cloud Platform, Microsoft Azure, or IBM Watson. Coupling the prominent MQTTS protocol and the IoT's broadest sensor range, ABW's Edge Gateway fulfills a key IoT mission of making deployments more agile and productive. Call for more details/specifications.</p>		
Battery / Enclosure		Part Number
INDUSTRIAL		ABW-9-EDG-CCE-NL



SERIAL MODBUS GATEWAY		
<p>The ABW Serial MODBUS Gateway (SMG) acts as a data concentrator for ABW's long range wireless sensor networks. This device allows you to connect up to 50 wireless sensing devices, per gateway, to your PLC or similar RS32/485 device. Call for more details.</p>		
Battery / Enclosure		Part Number
INDUSTRIAL		ABW-9-WSA-USB-NL



GATEWAYS

LOCAL ALERT SYSTEM			
<p>The Local Alert provides an additional way to receive critical notifications and sensor readings through our network. Upon receiving a notification the Local Alert can flash an LED, sound an audible alarm, and display critical notification information. When the Local Alert is added to a sensor network, it will automatically be added to the list of devices that can be notified by a sensor, gateway or system notification. When choosing to send a notification to the Local Alert, the user can choose what the device should do when it receives the notification, LED Light, Horn & Display, or any combination.</p>			
Battery / Enclosure		Part Number	
		ABW LOCAL ALERT	



CONTROLLER--Relay System			
<p>The Controller contains two separate relay switches allowing for individual control through the ABW portal. The control relays can be switches ON or OFF manually through the software or automatically by any wireless sensor notification assigned to a sensor, when a specific condition is detected. Call for more details. This device is great for responding to "WATER DETECTED" sensors, by then turning off the water--by means of an optional water solenoid or cut-off device. Four LED's show status of the unit, to include: Power On, Communicating, & (2) Relay Status lights. Available in 10 or 30 Amps.</p>			
Battery / Enclosure		Part Number	
		ABW CONTROLLER	





We Protect Your Business Like No One Can!

24/7 WE MONITOR & GUARD YOUR OPERATION. WHEN A PROBLEM ARISES, WE CALL, TEXT & EMAIL YOU IMMEDIATELY!

REMOTE MONITORING FOR:

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RETAIL STORES
PET & ANIMAL WELFARE
GROCERY & CONVENIENCE STORES
MANUFACTURING PRODUCTION
MARINAS & BOATS
FACILITY MANAGEMENT

WATER & SEWAGE LEAKS
REMOTE TEMPERATURES
VACCINE TEMP MONITORING
AG, LIVESTOCK & FARMING
LABS & PHARMACEUTICALS
DATA CENTERS
SECURITY
HVAC



REFRIGERATOR / FREEZER MONITORING

We can monitor the Temperature & Humidity, or the door status of all your cooling units. No risk of damaged food from failing units or staff errors. Plus we record all data so you have full reports & graphs to show Health Officials. We also monitor Food Temperatures & record the data. See all data on your smart phone or PC web portal.

WATER LEAKS, SEWERS AND FLOODS

Water damage is one of those risks you don't think about until its too late. Water lines break, valves leak, toilets overflow, sewers backup, the list never ends. Shop Sentry® can protect you from water damage before you suffer major losses and are forced to close for repairs.

WE CAN PROTECT ANYTHING!

Our advanced & encrypted system has over 80 different sensors to protect your operation. Don't think inferior Bluetooth or Wi-Fi sensors can do the job--they won't! We can monitor:

- *Temperature & Humidity
- *Water Temp
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- *Open/Closed
- *Light
- *Asset
- *Liquid Levels
- *Vibration
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- *Impact
- *Food-Dish Temp
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- *Amps
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