

Beyond Telemetry System

Sensor Categories

Sensor Category	Type of detection Sensor Provides
Activity	Detects sudden movements or motor activations.
ADC	Designed for a variety of resistive bridge-sensing applications like pressure, temperature, and level-sensing applications.
Air Pressure	Monitoring the operation of a ventilation box, air handling unit or air network of a building using pressure difference relative to the atmospheric pressure or between two different zones.
Air Quality Station	Air Quality Station that can utilize 4 different gas sensors at one time. Compatible with NO2, NO, CO, H2S, O3+NO2, and SO2 sensors.
Asset Management	Asset management trackers used to locate equipment
Beacon	For use with asset management trackers. Location beacon.
Button	Variety of user activated push button switches. Location possible with beacons.
BVS Valve	Snap-on to fit onto existing water valves to control the opening and closing of the valve. An add-on lipstick sized water leak detector with additional probe that can detect water leak.
CO2	CO2 detection sensor.
Condition Monitoring	3-axis accelerometer and temperature sensor.
Contact	Detects open/close status, contact or non-contact sensors. Also, measures liquid levels from outside of a container.
Current	Current detector is used to detect electrical input current. Single phase and three phase detection available.
Datalogger	Temperature & Humidity Sensor with Datalogger.
Dendrometer	Dendrometer measures swelling and shrinkage of stems, branches or roots with a sub-micrometer resolution.
Desk	Can detect when somebody is standing/sitting at or by a desk or mount in a door opening to detect whenever someone is walking by.
Differential Pressure	Differential Pressure Sensor measure and send differential pressure readings for up to 16km. HVAC applications.
Displacement	Used for long-term monitoring and recording of cracks at high altitudes and locations that are not easily accessible to structures.
www.beyondtelemetry.com 407-732-4422	

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Distance	Used to measure the distance between the sensor and a flat object. Uses ultrasonic sensing technology for distance measurement, and temperature compensation is performed internally to improve the reliability of data.
Door	Door/window sensor utilizes a magnetic switch to detect when a door or window is opened.
Dry Contact	Contact sensors can be used to detect contact between two wired contact points. This sensor can be used with an external mechanical switch
Event Counter	Detects the number of movements or vibrations and sends the information of the number of movements or vibrations to the gateway for processing.
Flow Meter	Displays your direct water consumption per water point.
GPIO	Device for measuring analog or digital signals.
GPS	GPS tracking device
Humidity	Various devices used to measure humidity including optional CO2, temperature, Barometric pressure
Leak	Detects water leaks or moisture using various methods such as absorbing cables, flood detection and flow sensors. Various models to select from.
Level	Detects tank or liquid levels using various senescing methods such as ultra sonic, floats, direct and indirect probes.
Light	Light sensor that can be used for ambient light intensity detection. Or combined to provide occupancy, temperature and light sensor reports temperature and illumination status at pre-arranged intervals. Optional infrared occupancy sensor will alert to real-time movement to report occupied status of the area.
Modbus	Converts wired Modbus devices such as energy meters and sensors to long range wireless. Any device with a wired Modbus RS485 interface can be read.
Motion	Various devices used to detect motion using accelerometers or passive infrared sensors.
Occupancy	Occupancy sensor detects occupancy or motion in facility management systems to optimize facility usage of desks, conference rooms, bathrooms, etc.
Panic	Personal panic button with location tracing options.
Parking	Vehicle parking detection part of a larger system us in parking facilities.

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PH Monitoring	PH Monitoring sensor that has a waterproof seal, small size, and can be used outdoors.
Plug	device can be used to monitor common appliances such as refrigerators, dishwashers, etc. to see the power on/off status, current, energy and voltage. This is a smart plug that needs to be plugged into the wall.
Predictive Maintenance	Predictive maintenance sensor that learns vibration detection coupled with artificial intelligence to predict when preventive maintenance may be needed. Target applications motors, compressors, robot and conveyor belt systems.
Pressure	Various devices used to detect pressures in liquid and gas environments. Applications include monitoring for: pump performance, water pipeline pressure, pressurized systems, chiller and cooling systems, hydraulic and pneumatic systems, liquid storage level, spraying systems and air compressors.
Pulse	Pulse detection interface, which can calculate the number of pulses and send the detected number of pulses to the gateway. Used to read and capture pulse information form other devices.
Radiation	Device can be used for Outdoor remote monitoring, Plant canopies in outdoor environments, Smart agriculture, Greenhouses, and Growth chambers.
Rat & Mouse Trap	Detects the status of the rat trap: armed, unarmed or unarmed with catch.
Satisfaction Terminal	Push button terminal that monitors in real time the average level of satisfaction, generates alerts when satisfaction is falling, and records corrective actions taken by your staff. Collect information about your users and monitor the improvement in satisfaction and in your interventions' performance. The solution allows you to collect valuable data such as the time required for each intervention, their duration or the impact on satisfaction.
Siren	Wireless alarm that can communicate with other devices through wireless network. High-power speakers and high-brightness LEDs for sound and light alarms.
Soil Moisture	Detects Soil Moisture, Soil Temperature and Soil Conductivity, and upload the value.
Sound	Various devices that measure sound levels indoors and out. Often combined with temperature, humidity and light sensors.
Sub-Meter	Installed in an electrical panel, this sensor allows you to sub-meter your installation fully, without decommissioning or modification.
Switch	Used to detect open / close condition. Additional sensors may be used to switch or control water flow. AC position switches also available to report on / off status.
Thermocouple	This equipment is used to detect temperature of the object and medium which

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Tank Level	This is a heavy-duty industrial tank level sensor with an on/off switch. It sits on top of a tank into the gauge and measures the level at regular intervals.
Tilt	When the device detects the tilt which is compared with the reference angle, it will report the tilt angle. It will transmit the detected data to other devices via the network for display. The external NTC thermistor can detect the surface temperature of object.
Tracker	Tracking devices used to track assets within facilities, vehicles and shipping containers, Uses GPS, Bluetooth, cell and Lora communications
UV	Device utilizes an external UV Sensor to determine the severity of UV in its vicinity. It can help determine if any action needs to be taken to decrease UV exposure if necessary.
Vibration	2-Gang Vibration Sensor Rolling Ball Type. When the vibration sensor moves or vibrates, the R718DA2 can detect vibrations or moving signals and transmit the detected data to other devices through the wireless network
Waste Bin	Waste Bin Detector sensor is designed for waste bin (trash bin) status detection. It detects full/empty, flame risk, inclined (fall) or not etc.
Water Meter	Ultrasonic water meter is designed for accurate measurement of cold and hot water consumption in households, apartment buildings, and small commercial premises.
Weather Station	All-in-one weather station is packed with sensors like solar radiation, precipitation, air temperature, relative humidity, internal temperature, vapor pressure, barometric pressure, wind speed and direction, maximum wind speed, tilt sensor, lightning strike count and average lightning distance. It is accurate at low wind speeds because no moving parts will cause friction or fail. This device is designed for continuous deployment in harsh climates
Weight	Outdoor remote monitoring, silo fill level, structural health monitoring, weighing, cracks monitoring and component deformation/strain monitoring.
Footstep Detection	Device used to detect human footsteps. Typically used in or around restricted areas such as critical infrastructure applications.
Fence Tremor	Device used to detect subjects climbing on or cutting fencing. May also be used on any metallic structure to detect tampering or presence of subjects. Wind mitigation allows for the exclusion of wind events.
Long-range Infrared Detection	Used to detect subjects and vehicles in remote applications. Invisible curtain of detection may be established to detect subjects or vehicles crossing and exclusion boundary zone.