

Universal Sensing Appliance



Description

This compact device attaches to sensors through a wired interface. It interprets the sensor data, and transmits it wirelessly to network receivers. The events can be recorded, a response generated and alerts broadcasted.

Using the tag's programmable processor, the Universal Sensing Appliance feature-set can support a wide variety of wireless applications:

Internal

- Programmable beaoning set for variable time intervals, up to 24 hours between beacons
- Simultaneous control point activation and beaoning capabilities
- Temperature monitoring

External

- Open/Closed, On/Off
- Motion, Vibration
- Pressure
- Radiation

The Universal Sensing Appliance provides wireless sensor monitoring, thus eliminating costly cable infrastructure and allowing sensors to be utilized on mobile assets and in difficult-to-access locations.

Sensors can be external to the tag or integrated inside the tag case. For example, a "USA" connected to a radiation detector can report ambient temperature and alert upon excessive radiation levels in a facility. The same card can also be interfaced to a dry-contact, or a Gas Sensor.

When used in conjunction with ActiveTrac™ or eOLST™ software, the system can maintain a list of events or alert items, including their location and environmental conditions alerting the operator to movements or change in status.

Features

Automatic Beacon - periodically wakes up and transmits its ID and status

Static/Dynamic Tracking - operates like a standard asset tag when in an activation field

Long Read Range - areas of 3,000 square feet or more can be monitored using a single receiver depending on environmental conditions*

Battery Low Indicator - enables timely replacement of expired tags

Temperature Option - monitors the environment and alerts the operator if the temperature is outside a user-specified range

Door Open Option - interfaces with standard magnetic sensors to alert the operator whenever a door, cage or enclosure is opened

Tamper Option - detects attempts to remove the tag and transmits an alarm signal

Specifications

| | |
|------------------------------|---|
| Name | ActiveTag™ Universal Sensing Appliance |
| Part Number | AT-132AMB |
| Wake-up / Transmit Frequency | 126 kHz / 315 MHz |
| Operating Life | 1 - 3 years** |
| Operating Temperature | -20°C to +70°C (0°F to +160°F) |
| Weight (approximate) | 2 ounces |
| Mounting | Metallic or non-metallic surface; fasteners (two 1/8" holes), tape or epoxy |
| Options | Tamper (AT-132AMB-T) Temperature*** (AT-132AMBT) Tamper & Temperature*** (AT-132AMBT-T) Door Open (contact AXCESS) |

*Longer ranges of 50+ feet line-of-sight are possible within some environments. **Operating life will vary depending on beacon rate and duty cycle. ***Standard monitoring range 0° to 125°F (-20° to +45°C), maximum 2 external sensors per tag.

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