



Introduction

The Atlona **AT-OCS-900N** is a network-enabled multi-function sensor designed for use in a wide variety of AV automation applications. This ceiling mounted sensor uses passive infrared (PIR) technology to detect occupancy in the coverage area. The OCS-900N utilizes an IP network to communicate with select Atlona products and the Velocity™ system to automatically control AV components based on whether the space is occupied. It comes with two lenses that cover approximately 900 or 2,000 square feet depending on ceiling height. A blinder insert is included that limits the sensor's field of view, preventing detection in unwanted areas such as doorways or windows with heavy cross traffic. Installation is simplified by Power over Ethernet (PoE), that provides both communications and power over a single cable as well as spring-loaded clamps that secure the sensor to a ceiling tile.

In addition to occupancy, the OCS-900N also captures temperature and ambient light level information. Its open standard design allows sensor information to be communicated to third-party ventilation, lighting, and other systems over TCP/IP using common protocols such as UDP, TCP, WebSocket, and MQTT.

Applications

- **Commercial**
Automate AV system operation in conference rooms and huddle spaces based on occupancy.
- **Education**
Automate AV system operation in classrooms and lecture spaces based on occupancy.
- **Hospital / Retail**
Create interactive digital signage and video walls in lobbies or stores based on motion near the display.

Key Features

- Multi-function sensor that detects occupancy, temperature, and ambient light.
- IP-enabled for communicating state information over Ethernet.
- Passive infrared (PIR) detection technology.
- Customizable detection area with standard lens covering 900 square feet and included accessory lens covering 2,000 square feet.
- 360 degrees field of view standard, or limit to 240 degrees with included blinder insert.
- Configurable LED indicators may be customized for both color and activity.
- Communicates over the network directly to the Atlona AT-WAVE-101 for automatic display control.
- Works with Velocity™ AV control systems for more complex automation applications.
- Supports network communications with third-party devices using common protocols such as UDP, TCP, WebSocket, and MQTT.
- Power over Ethernet (PoE) for remote power and network connection with a single cable.

Specifications

| Motion Sensor | | | |
|-------------------------|--|-------------|-------------|
| Detection | PIR (Passive Infrared) | | |
| Coverage Area | 900 ft ² (83.6 m ²), 2000 ft ² (185.8 m ²) with accessory lens | | |
| Coverage Pattern | 360° | | |
| Ambient Light Sensor | | | |
| Range | 0 to 65535 lux | | |
| Color Spectrum | RGBW, 16-bit | | |
| Temperature Sensor | | Fahrenheit | Celsius |
| Range | -40 to +257 | -40 to +125 | |
| Measurement System | Celsius, Fahrenheit, ADC | | |
| Ethernet | | | |
| Port | 1 x RJ45 | | |
| Standards and Protocols | MQTT, JSON over WebSocket, mDNS, HTTP/TLS, TCP, UDP | | |
| Speeds | 10/100 Mbps | | |
| Addressing | DHCP, Static | | |
| LED Indicators | | | |
| Motion Detection | 4 - LED, configurable (inner/outer illumination) | | |
| Connectors | | | |
| LAN | 1 - RJ45, female | | |
| Environmental | | Fahrenheit | Celsius |
| Operating | +32 to +122 | | 0 to +50 |
| Storage | -40 to +158 | | -40 to +70 |
| Humidity (RH) | 90% (maximum), non-condensing | | |
| Power | | | |
| Consumption | 1.1 W | | |
| PoE | 802.3af | | |
| Dimensions (H x DIA) | | Inches | Millimeters |
| Unit | 2.13 x 2.90 | 54 x 74 | |
| Weight | | Ounces | Grams |
| Device | 2.11 | 60 | |
| Certification | | | |
| Device | CE, FCC, UL 916 file no. #E524557, UKCA | | |
| Compliance | | | |
| NDAA-899 | Yes | | |
| Warranty | | | |
| Device | To view the product warranty, use the following link: https://atlona.com/warranty | | |

Supported Products

| SKU | Description | Supported Firmware Version |
|----------------|--|----------------------------|
| AT-OME-MS42 | 4x2 Matrix Switcher with USB | 1.1.2 |
| AT-OME-MS52W | 5x2 Matrix Switcher with USB and Wireless Link | 2.9.4 |
| AT-UHD-SW-510W | 5x2 Matrix Switcher with Wireless Link | 2.9.4 |
| AT-VGW-HW-3 | Hardware Gateway for AV Control and Management plus Room Scheduling (3 rooms) | 2.4.5 |
| AT-VGW-HW-10 | Hardware Gateway for AV Control and Management plus Room Scheduling (10 rooms) | 2.4.5 |
| AT-VGW-HW-20 | Hardware Gateway for AV Control and Management plus Room Scheduling (20 rooms) | 2.4.5 |
| AT-VGW-SW | Velocity Software Gateway (20 rooms) | 2.4.5 |
| AT-VTPG-1000VL | Velocity All-In-One 10" Touch Panel with Gateway | 2.4.5 |
| AT-WAVE-101 | WAVE™ Wireless Presentation Platform | 1.1.0 |

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