



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	3-year limited		

Supported Products

SKU	Description	Supported Firmware Version
AT-WAVE-101	WAVE™ Wireless Presentation Platform	1.1.0
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

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