



Applications

Zone control for absolute comfort:

- Precise environmental control
- Occupancy override allows the system to adjust to individual needs
- Convenient VAV airflow balancing at the point of control without a control engineer
- Light-weight solution to directly monitor and configure air handlers

Features & Benefits

- Slim, compact style and clean lines are well received by architects and building owners
- Onboard LON® jack is accessible without removing the cover to allow quick access to the network for commissioning or troubleshooting controllers (requires additional wiring)
- For people working outside of core hours, an occupancy control extends normal system operating hours for continued comfort while saving energy when possible
- Data is sent directly to the associated controller's SMRT inputs for seamless integration and control
- LCD display provides real-time access to temperature and setpoint.
- Simple 2-wire interface provides both power and communications to reduce installation costs and for easier installation or system retrofit
- Setpoint override for optimum comfort
- Accurate temperature monitoring for increased comfort
- Supports various mounting scenarios: Install the Allure EC-Smart-Sensor directly on dry wall or on a North American, European, or Asian style junction box

Overview

The **Allure EC-Smart-Sensor-VAV** is specifically designed to interface with Distech Controls' ECC-VAVS / ECC-VAV and ECP-VAVS / ECP-VAV series controllers. It provides precision local temperature sensing and a variety of public functions that can be accessed by room occupants as well as password-protected functions for technicians.

The alluring, slim profile enclosure is suitable for classrooms, hotels, executive areas, office spaces and commercial areas. With a user-friendly interface, occupants can view and adjust environmental settings to their liking, for example, view the space temperature, adjust the setpoint, and apply an occupancy override.

Maintenance personnel have access to a password-protected configuration mode that allows them to perform airflow balancing on a connected VAV controller. In addition, maintenance personnel can use an EC-Smart-Sensor-VAV to either override a controller's outputs or just view its input and output values; which of these two options is available depends on whether the sensor is connected to a controller of type ECC (configurable) or ECP (programmable).

Mounting hardware with a separate sub-base is provided with the Allure EC-Smart-Sensor-VAV for installation on a dry wall or on an electrical junction box. Alternatively, the Allure EC-Smart-Sensor-VAV can be used as a handheld device when wired into a standard wall-mounted room sensor. Technicians can perform detailed monitoring and configuration such as airflow balancing of the VAV and associated equipment right near the point of control. The lightweight design and quick connect 2-wire interface make the Allure EC-Smart-Sensor-VAV convenient to use.

The Allure EC-Smart-Sensor-VAV is configurable using either the EC-Configure plug-in or EC-gfxProgram, depending on the type of controller connected to the sensor. Both tools are accessible through any LNS®-based software, such as Distech Controls' Lonwatcher 3, or from any multi-protocol platform software that supports LONWORKS® devices, such as Distech Controls' EC-Net^{AX}, which is powered by the Niagara^{AX} Framework®.

Related Products

ECC-VAVS and ECC-VAV Series Controllers



| | |
|-----------|--|
| ECC-VAVS | 7-Point Variable Air Volume Configurable Controller with Actuator and Flow Sensor |
| ECC-VAV | 12-Point Variable Air Volume Configurable Controller with Actuator and Flow Sensor |
| ECC-VVTS | 6-Point Variable Volume Temperature Configurable Controller with Actuator |
| ECC-VVT | 11-Point Variable Volume Temperature Configurable Controller with Actuator |
| ECC-VAV-N | 11-Point Variable Air Volume Configurable Controller with Flow Sensor |

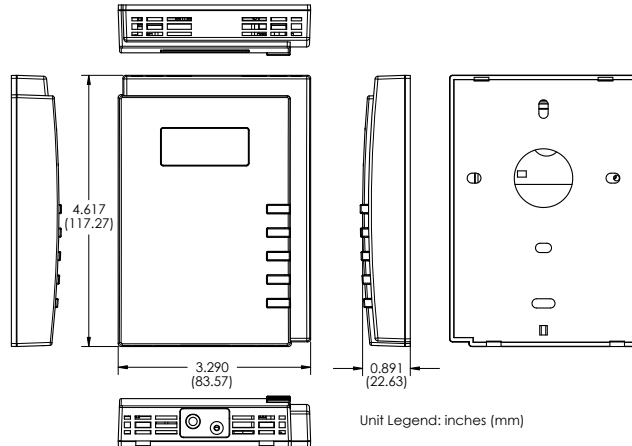
ECP-VAVS and ECP-VAV Series Controllers



| | |
|-----------|--|
| ECP-VAVS | 7-Point Variable Air Volume Programmable Controller with Actuator and Flow Sensor |
| ECP-VAV | 12-Point Variable Air Volume Programmable Controller with Actuator and Flow Sensor |
| ECP-VVT | 11-Point Variable Volume Temperature Programmable Controller with Actuator |
| ECP-VAV-N | 11-Point Variable Air Volume Programmable Controller with Flow Sensor |

For more information on these or other Distech Controls products please refer to our web site at www.distech-controls.com or contact sales@distech-controls.com.

Product Specifications



General

| | |
|-------------|---|
| Voltage | 12VDC (Through the communication wires) |
| CPU | PIC16F648A |
| LCD Display | 2 Lines; 8 Characters |

Environmental

| | |
|-----------------------|------------------------------|
| Operating Temperature | 5°C to 40°C; 41°F to 104°F |
| Storage Temperature | -20°C to 57°C; -4°F to 135°F |
| Relative Humidity | 0 to 95% Non-condensing |


Enclosure

| | |
|----------------------|---|
| Material | ABS type PA-765A |
| Color | Off white |
| Dimensions (overall) | 4.62" x 3.30" x 0.90" (117mm x 84mm x 23mm) |
| Shipping Weight | 0.4lbs (0.18kg) |
| Installation | Wall mounting through mounting holes (see figure above for hole positions) |

Agency Approvals

| | |
|-----------------------|-----------------------------------|
| UL Listed (CDN & US) | UL916 Energy management equipment |
| Material ¹ | UL94V-1 |



1. All materials and manufacturing processes comply with the RoHS directive .

Temperature Sensor

| | |
|------------|----------------------------|
| Types | 10KΩ NTC Thermistor |
| Range | 5°C to 40°C; 41°F to 104°F |
| Accuracy | ±0.5°C; ±0.9°F |
| Resolution | 0.1°C; 0.18°F |

Communications

| | |
|----------|---|
| Type | 2400 baud serial communication over 2-wire interface Half duplex, 8-bit, no parity, 1 stop bit |
| Protocol | Based on EIA-232 |
| Wiring | Cable length: 76m (250ft) maximum Supported Cable: Belden #8451 or equivalent |

Electromagnetic Compatibility

| | |
|-----|--|
| CE | EN 61000-6-3:2007 EN 61000-6-1:2007 |
| FCC | Part 15, subpart B class B |



Product Warranty & Total Quality Commitment

All Distech Controls product lines are built to meet rigorous quality standards and carry a two-year warranty. Distech Controls is an ISO 9001 registered company.

Specifications subject to change without notice.

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Allure EC-Smart-Sensor-VAV

www.distech-controls.com