# DISTECH CONTROLS™

# Datasheet Allure<sup>™</sup> RS-Smart-Sense

Room sensor with a touch-sensitive color display

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## Applications

The Allure RS-Smart-Sense room sensor provides precise environmental zone control for temperature, fan speed, lighting, and sunblinds with the following controller applications:

- Fan coil units
- Roof top units
- Heat pumps
- Unit ventilators
- Lighting and sunblind applications

The Allure RS-Smart-Sense room sensor can be used as a classic wall-mounted room device or as a hand-held tool to:

- Set the MAC address of the controller
- · Configure the basic parameters of the controller

# Overview

The Allure RS-Smart-Sense room sensor, with its touchsensitive color display, offers a user-friendly interface that provides immediate and easy control of each space comfort parameter (lighting, temperature, sunblinds, and fan speed) while providing instant access to four predefined scenes. These integrated scenes can be easily assigned to recall specific settings or preferences in a room or office space.

The Allure RS-Smart-Sense sensor is customizable to fit any interior design. The sensor is available in two colors: ivory or black, and is supplied with an additional brushed aluminum style front plate.

An integrated sensor automatically regulates the Allure RS-Smart-Sense sensor backlight intensity depending on the room's ambient luminosity while discretely providing the utmost reading comfort.

The innovative ECO-Vue<sup>™</sup> leaf pattern graphically indicates the impact of the user settings on the global building energy efficiency to encourage the occupants to follow the supervisor's recommendations.

A password protected technician mode allows the integrator to perform commissioning, basic settings, and troubleshooting. For example, it can be used to set the controller's BACnet MAC address during commissioning when the Allure RS-Smart-Sense sensor is connected to a BACnet compatible controller.

The Allure RS-Smart-Sense sensor is designed to interface with Distech Controls' RCL/RCB-PFC Series controllers, RCL-Light/Blind series controllers, and the RCL-ITR LONWORKS interface. Connection is made through a plug and play RJ9/RJ9 cable (not included).

# Features & Benefits

- The full color, touch sensitive color screen and intuitive interface provides real-time control of temperature, fan speed, lighting, sunblinds, and occupancy management
- Up to four scenes stored for instant access to favorite comfort parameters
- Customizable icons and different types of front plates (brushed aluminum and glossy black, or brushed aluminum and ivory) to fit any project and suit aesthetic needs of architects and building owners
- ECO-Vue leaf pattern graphically indicates energy efficiency in real time to promote an occupant's energy-conscious behavior and therefore save energy costs
- · Screen backlight dimming adjusts automatically to the room's ambient light
- · Occupancy control to extend system's normal operating hours provides increased flexibility
- Integrator access to the controller's main functionality for configuration purposes (see Hardware Installation Guide for more information).
- A single plug and play cable to connect both power and communication for easy installation and system retrofit at reduced costs (RJ9 connection).
- The Smart-Sense Room Control mobile app complements the Allure RS-Smart-Sense room sensor and demonstrates how to manage the room comfort parameters.



## **ECO-Vue Icon**

Distech Controls recognizes that the human factor must be considered when designing a building for energy efficiency. To encourage occupants to be as green as possible, the Allure RS-Smart-Sense sensor has an ECO-Vue icon that shows more leaves when the occupant chooses a setpoint close to the BMS commands. This helps to promote awareness for energy consciousness and to save operational costs. See Allure RS-Smart-Sense End-User Manual for more information.









Low energy efficiency





Highest energy efficiency

#### **Complementary Product**

## Free Mobile App: Smart-Sense Room Control

The Smart-Sense Room Control free mobile application nicely complements the Allure RS-Smart-Sense sensor by demonstrating how you can easily manage your room comfort parameters (occupancy, fan speed, lighting, sunblinds, temperature, and scenarios).





#### **Related products**

#### **HVAC Controllers**



RCB/RCL-PFC

Series Controllers

WSPCert and BACnet configurable controllers and LoNMARK® certified configurable controllers designed to control a wide variety of terminal units such as powered fan coil units, unit ventilators, chilled ceilings and small air handling units



RCL-Light/Blind LONMARK<sup>®</sup> certified configurable controllers designed to offer an optimal solution for lighting and sunblind management within open plan offices and buildings.

LONWORKS Interface

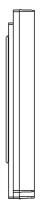
Wiring

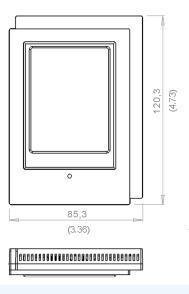


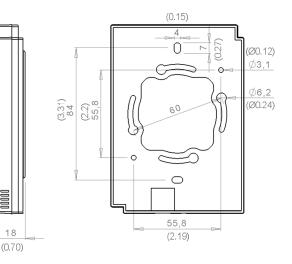
 RCL-ITR
 LONMARK® Certified Room Manager with LONWORKS® Interface and 4-Channel RJ9 Inputs Expander.

 CBL-003
 RJ9-RJ9 cable - 30cm (11.8 in) length

CBL-05	RJ9-RJ9 cable - 5m (16.4 ft) length
CBL-08	RJ9-RJ9 cable - 8m (26.2 ft) length
CBL-12	RJ9-RJ9 cable - 12m (39.3 ft) length







Unit: mm (inches)

#### **Product Specifications**

General		Environmental	
Voltage	5 Vdc +/-0.1 Vdc	Operating Temperature	5°C to 40°C; 41°F to 104°F
Power	250mW typical	Storage Temperature	-20°C to 50°C; -4°F to 122°F
Color Display		Relative humidity	0 to 95% Non-condensing
Туре	Full color TFT display with backlight	Enclosure	
Resolution	240p x 320p (48.6mm x 64.8mm)	Material	ABS V0
Symbols	Language-independent icons	Color	Graphite black
Temperature Resolution	± 0.1°C; ± 0.1°F	Dimensions (overall)	85.3 x 120.3 x 18 mm (3.36 x 4.73 x 0.70")
Touchscreen		Shipping Weight	0.2 kg (0.44 lbs)
Туре	Resistive	Installation	Wall-mounting through mounting holes
Temperature Sensor			(See Hardware Installation Guide for hole
Туре	10 kΩ NTC Thermistor		position)
Range	5°C to 36.9°C; 41°F to 98.4°F	Agency Approvals	
Accuracy	±0.5°C at 25°C; 0.90°F at 77°F	Material1	UL94V-0
Communications		Electromagnetic Compatibility	
Wiring	12 m (39 ft) maximum	CE : Emission	EN 61000-6-3:2007; Generic standards for
Cable Type	4 conductors 7/0.16mm (26 AWG)		residential, commercial, and light-industrial
Connector	RJ9		environment
Daisy-Chaining	No	Immunity	EN 61000-6-1:2007; Generic standards for
Compatibility		((	residential, commercial, and light-industrial
Compatible with Distech Cor	ntrols' RJ9 controllers manufactured after October		environments

2011. Please contact the technical support for any further information.

<sup>1</sup> All materials and manufacturing processes comply with the RoHS directive **RoHS** 

# **Total Quality Commitment**

All Distech Controls product lines are built to meet rigorous quality standards. Distech Controls is an ISO 9001 registered company.

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Allure RS-Smart-Sense Sensor



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