

# □ □ □ Allure™ ECW-Sensor Series

Room Temperature Sensors



#### Overview

The Allure™ ECW-Sensor series are wireless and battery-less room temperature sensors specifically designed to communicate with Distech Controls' Open-to-Wireless™ controllers via radio telegrams in accordance with the EnOcean® standard.

All Allure ECW-Sensor models possess an integrated temperature sensor for precision local temperature sensing. In addition, some models feature a rotary knob for setpoint adjustment, fan speed setting, and a push button for occupancy override. All models are powered by solar energy, providing maintenance-free operation and are part of Distech Controls' Open-to-Wireless solution. models are available for 902 frequency bands. making use compliant for in most countries.

The alluring, slim profile enclosure is suitable for classrooms, hotels, executive areas, office spaces and commercial areas. A separate sub-base allows it to be mounted on any surface with double-sided adhesive tape.

### **Applications**

- Perform building retrofits with minimal impact on architecture and materials.
- Install wireless devices on any surface, such as glass, brick and stone.
- Support open spaces that undergo frequent changes in layout or require seasonal displacement.
- Expand controller input count.

#### Features & Benefits

- Wireless communication permits the optimized placement and easy relocation of sensors, and removes the need to open wall and for extensive installation work.
- Available in various models for communication on 902MHz or 868MHz to suit your country or local area's transmission spectrum standards



### **Model Selection**

PDITE-WSEN902X1	Open-to-Wireless battery-less space temperature sensor, EnOcean 902 MHz (Optional battery available).
PDITE-WSENO902X1	Open-to-Wireless battery-less space temperature sensor with override, EnOcean 902 MHz (Optional battery available).
PDITE-WSENS902X1	Open-to-Wireless battery-less space temperature sensor with setpoint cool/warm, EnOcean 902 MHz (Optional battery available).
PDITE-WSENSO902X1	Open-to-Wireless battery-less space temperature sensor with setpoint cool/warm and override, EnOcean 902 MHz (Optional battery available).
PDITE-WSENSOF902X1	Open-to-Wireless battery-less space temperature sensor with setpoint cool/warm, override and fan speed selector, EnOcean 902 MHz (Optional battery available).
PDITE-WSEN868X1	Open-to-Wireless battery-less space temperature sensor, EnOcean 868 MHz (Optional battery available).
PDITE-WSENO868X1	Open-to-Wireless battery-less space temperature sensor with override, EnOcean 868 MHz (Optional battery available).
PDITE-WSENS868X1	Open-to-Wireless battery-less space temperature sensor with setpoint cool/ warm, EnOcean 868 MHz (Optional battery available).
PDITE-WSENSO868X1	Open-to-Wireless battery-less space temperature sensor with setpoint cool/ warm and override, EnOcean 868 MHz (Optional battery available).
PDITE-WSENSOF868X1	Open-to-Wireless battery-less space temperature sensor with setpoint cool/ warm, override and fan speed selector, EnOcean 868 MHz (Optional battery available).

## **Specifications**

General Power Supply ———————————————————————————————————	
Environmental  Operating Temperature  Storage Temperature  Relative Humidity	-20°C to 57°C; -4°F to 135°F
Enclosure  Material— Color ———————————————————————————————————	-4.62" x 3.29" x 1.58" (117mm x 84mm x 40mm) 
Communications	
Communication Protocol ———————————————————————————————————	EnOcean 4BS Telegram 10mW
Communication Frequency————————————————————————————————————	Allure ECW-Sensor 868 & 902 MHz
<ul> <li>□ Center frequency</li> <li>□ Occupied frequency band</li> <li>□ Maximum transmission power</li> <li>□ Receiver category</li> <li>EnOcean Equipment Profiles (EEP) 868 &amp; 902MHz</li> </ul>	868.0 - 868.6Mhz 3dBm Category 2
□ Allure ECW-Sensor-O □ Allure ECW-Sensor-S □ Allure ECW-Sensor-S □ Allure ECW-Sensor-SO □ Allure ECW-Sensor-SO	A5-02-05 A5-10-0C A5-10-03 A5-10-05

For more information on jumper settings, refer to the <u>Allure ECW-Sensor Series Installation Guide.</u>

Transmit Interval Time

Wake-Up Cycle Time-

□ Default-

□ Default-

- 1, 10, 100; Jumper selectable

- 100 Seconds

1, 10, 100 seconds; Jumper selectable

<sup>1.</sup> From EnOcean Equipment Profiles (EEP) V2.6, EnOcean GmbH

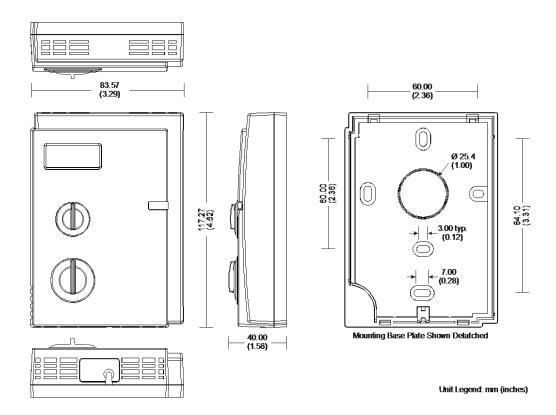
## Specifications (cont'd)

#### Sensor Data

Temperature Sensor:				
			Pt1000 (1KΩ @ 0°C; 32°F)	
□ Sensor Range ———		0°C to	40°C; 32°F to 104°F, linear	
□ Value Range ———			255 to 0	
□ Accuracy ———			±0.5°C; ±0.9°F	
□ Resolution ————			8 Bit; 0.15°C; 0.27°F	
Occupant Controls Data:				
<ul> <li>Occupancy override —</li> </ul>	1 Bit			
<ul><li>Setpoint adjustment —</li><li>Fan speed selection —</li></ul>	8 Bit; Linear Potentiometer, 0 - 255 8 Bit; 5-positions:			
·	Position	Value Range	, ,	
	Auto	210 to 255		
	Off	190 to 209		
	Fan Speed 1	165 to 189		
	Fan Speed 2	145 to 164		
	Fan Speed 3	0 to 144		
Electromagnetic Comp Allure ECW-Sensor 902M	Hz:	Complies	with FCC rules, part 15.231	
Allure ECW-Sensor 868M			1100-210	
CE - Directives	1 12.	———— Electromag	netic Compatibility Directive	
			2004/108/EC	
			elecommunications Terminal	
Equipment Directive R&TTE 19				
□ Standards Used ——		<u> </u>	ETSI EN 301 489-1: V1.6.1	
			ETSI EN 301 489-3: V1.4.1	
			ETSI EN 50 731 : 2002	
			ETSI EN 300 220-1: V2.1.1	
			ETSI EN 300 220-2 : V2.1.2	
□ Recommendation		ERC Recon	nmendation 70-03: 2009-02	
Agency Approvals				
UL Listed (CDN & US) — Material—		UL916 Ene	rgy management equipment UL94V-1	

All materials and manufacturing processes comply with the RoHS directive.

### **Dimensions**



Specifications subject to change without notice.

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Global Head Office - 4205 place de Java, Brossard, QC, Canada, J4Y 0C4 - EU Head Office - ZAC de Sacuny, 558 avenue Marcel Mérieux, 69530 Brignais, France