



**Carrier**

 **United Technologies**

Wireless sensors work in conjunction with a wireless adapter, which enables wireless communication between the sensors and an i-Vu® BACnet controller in the space. By sensing when windows and doors are opened wirelessly, our i-Vu controllers can make smart decisions to optimize the control of heating, cooling, and lighting systems in the building, providing optimum occupant comfort and energy efficiency.

- Easy to Install
- Communicates on the Rnet sensor network via a wireless adapter
- Can be installed up to 60' away from wireless adapter
- Enables wireless sensing on new or retrofit projects
- Wireless software included for quick and easy sensor pairing
- Senses opening/closing of door or window via magnetic relay switch

- Wireless and battery-less space sensors (assuming sufficient lighting exists in space)
- Maintenance-free capacitors power the sensors during unlit periods for up to 4-days without a light source
- No repeaters or amplifiers required for zone-based applications
- Can coexist on Rnet with Carrier's wired ZS sensors
- Single-zone controllers can support a total of 5 sensors
- Multi-zone controllers can support up to 15 sensors





# i-Vu® Building Automation System Wireless Door/Window Sensor

Part Number: WS-S-902

## Specifications

<b>Power supply</b>	Solar harvesting, internal energy storage
<b>Supplemental battery</b>	A CR1216 battery is included to supplement power during commissioning and for low-light conditions
<b>Maximum operating life</b>	Up to 4 days with no light power or battery Time to fully charge depends on available lux. Full charge in 8 hours @ 1000 lux or 24 hours @333 lux
<b>Maximum sensor gap</b>	0.25 in. (6.4 mm)
<b>Protocol</b>	Customized version of EnOcean®
<b>Radio frequency</b>	902 MHz (North America)
<b>Transmission range</b>	Typically, 60 ft. (18.29 m) maximum from wireless adapter, assuming sensor and wireless adapter are separated by no more than 1 drop ceiling or 2 walls (drywall with metal studs)
<b>Transmission interval</b>	The sensor transmits: <ul style="list-style-type: none"><li>• On change of sensed value, and</li><li>• At a regular 25-minute interval (heartbeat)</li></ul>
<b>Minimum illumination strength</b>	15 lux, constant
<b>Degree of protection</b>	IP50
<b>Operating environment</b>	Indoor rated only -32° to 131°F (0° to 55°C) 5% to 95% RH (non-condensing)
<b>Housing</b>	ABS plastic, ceiling white color
<b>Weight</b>	0.97 oz. (27.5g)
<b>Dimensions</b>	Sensor: 3.15"L x 0.83"W x 0.59"D (8.0 cm x 2.1 cm x 1.5 cm) Magnet: 3.15"L x 0.47"W x 0.5"D (8.0 cm x 1.2 cm x 1.3 cm)
<b>Compliance</b>	<p><b>United States of America:</b> FCC CFR 47, Chapter 1, Subchapter A, Part 15, Subpart B Class B Contains FCC ID: SZV-STM300U UL-916 (PAZX) Energy Management Equipment</p> <p><b>Canada:</b> Industry Canada Compliant, ICES-003, Class B cUL Listed UL 916,PAZX7, Energy Management Equipment</p> <p><b>Europe:</b> CE EN50491-5-2:2009; Part 5-2: EMC requirements for HBES/BACS used in residential, commercial and light industry environment EN50491-3:2009 Part 3: Electrical safety requirements for Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) Low Voltage Directive: 200695/EC RoHS Compliant: 2011/65/EU</p> <p><b>Australia and New Zealand:</b> C-Tick Mark AS/NZS 61000-6-3</p>



**CONTROLS EXPERT**

Tested. Certified. Factory Authorized.

**For more information, contact  
your local Carrier Controls Expert.**  
Controls Expert Locator:  
[www.carrier.com/controls-experts](http://www.carrier.com/controls-experts)

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