i-Vu® Building Automation System
Wireless Adapter

Part Number: RG-902

The i-Vu® Building Automation System provides everything you need to access, manage, and control your building, including the powerful i-Vu user interface, plug-and-play BACnet controllers, and state-of-the-art Carrier equipment.

As part of Carrier's wireless sensing line, the wireless adapter connects wireless room sensors to the i-Vu® building automation system.

The wireless adapter plugs directly into the sensor network (Rnet), of an i-Vu controller, enabling wireless communication with the wireless sensors. By reading sensor data, the controller is able to optimize the control of heating, cooling, and lighting systems in the space, providing optimum occupant comfort and energy efficiency.

i-Vu® Wireless Adapter Features and Benefits

- Easy to install
- Connects directly to Rnet sensor network, enabling communication with wireless sensors
- Can be installed up to 60' away from wireless sensors
- Enables wireless sensing on new or retrofit projects
- Wireless software included for quick and easy sensor pairing

i-Vu® Wireless System Benefits

- 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
- Integrates seamlessly with i-Vu® system alarming for proactive monitoring of important sensor conditions, including:
  - Sensor charge level
  - Sensor signal strength
  - Sensor offline
- Can co-exist 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

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Specifications

Power supply	24 Vac external power supply
Power requirements	24 Vac @ 125 mA
Communication	115 kbps Rnet connection between adapter and controller 15 sensors max per Rnet network; 5 sensors max per control program
Protocol	Customized version of EnOcean®
Radio frequency	902 MHz (North America)
Transmission range	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)
Protection	Communication port is optically isolated
Environmental operating range	Indoor rated only 0° to 130° F (-17.8° - 54.4° C) 10% to 90% relative humidity, non-condensing
Housing	UL94-5VA plenum rated enclosure, rugged GE C2950 Cycoloy plastic, black color
Weight	4.3 oz. (121.9 g)
Dimensions	4.69 in. x 3.37 in. x 1.38 in. (11.94 cm x 8.56 cm x 3.51 cm)
Compliance	**United States of America:** FCC CFR 47, Chapter 1, Subchapter A, Part 15, Subpart B Class B Contains FCC ID: SZV-STM300U UL-916 (PAZX) Energy Management Equipment **Canada:** Industry Canada Compliant, ICES-003, Class B cUL Listed UL-916, PAZX7, Energy Management Equipment **Europe:** 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 **Australia and New Zealand** C-Tick Mark AS/NZS 61000-6-3

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