



Stairwells, Storerooms, and Restrooms

Efficiency, and flexibility
with wireless controls

Stairwells, storerooms, and restrooms uniquely impact users, and are in all commercial spaces. Diverse needs have some common solutions. These critical, yet intermittently used spaces can improve ROI. Controls can boost energy savings as much as 40-60%.

OSHA, ADA and ASHRAE 90.1 all have specific requirements for infrequently used spaces. For instance, stairwells must be on 24/7 but are traveled only 2% of the day. Restroom lighting is also mandated, but benefit from HVAC and special control approaches. Storage areas may be accessed less than 1% of the time, but need high activity light levels when occupied.



Scheduling and presets

Illumination levels can be planned in-advance easily, shared via mesh communication, and unoccupied “false-ons” lighting un-occupied spaces.



Dual technology

Using advanced PIR and ultrasonic detection can head-off “false-off’s” where occupants are present and stationary.



HVAC

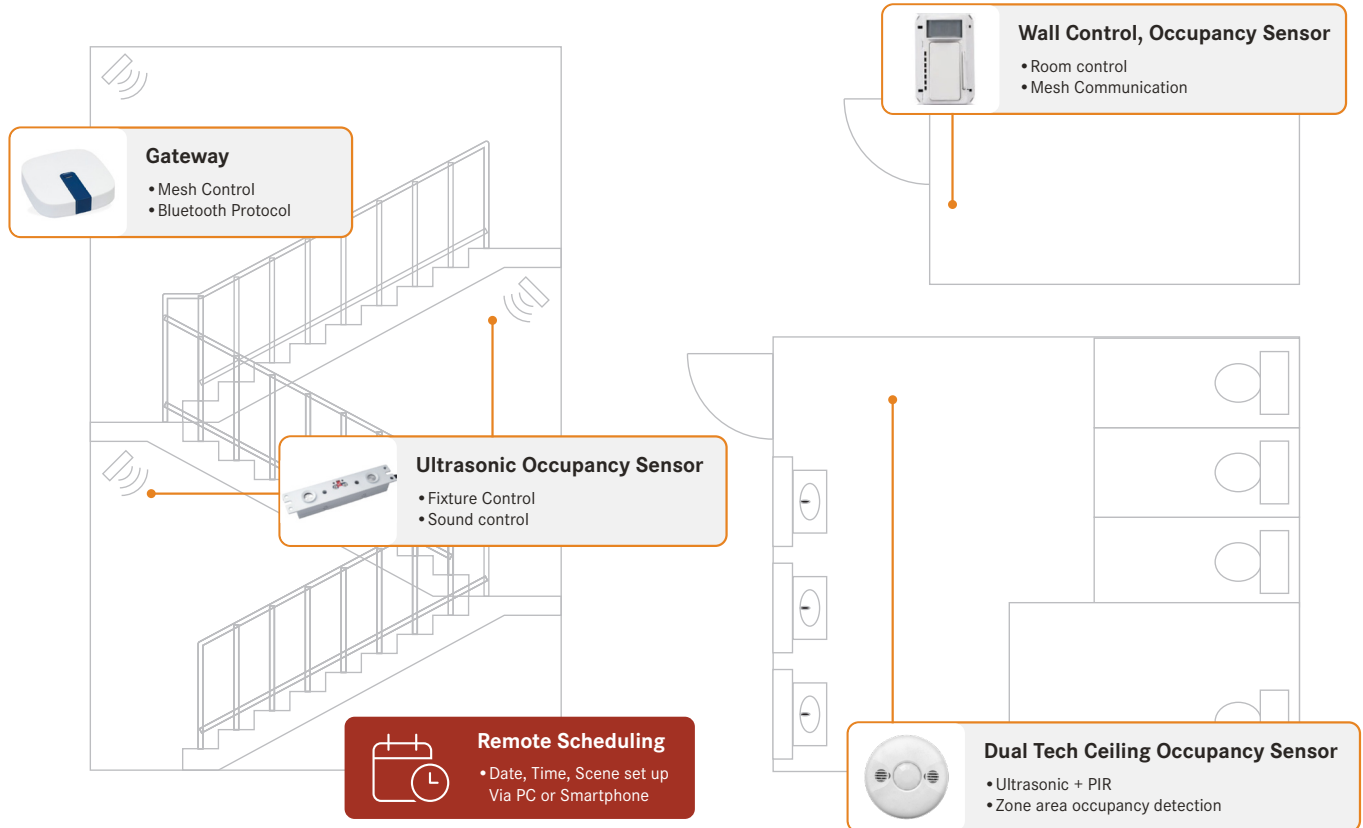
Tie occupancy sensing into HVAC via BACnet as a combined strategy to heat & cool spaces only when needed.



App-based Design and Control

User-friendly control from smartphone apps streamlines design, start up, and future network adjustments

Control in Infrequently-used Spaces Can Equal Big ROI



TYPICAL CONTROL PROFILES

Zone	Scenario	Description
Stairwell	Occupancy detection by 'unseen' motion, turn ON all	Ultrasonic detection by reflected waves, turns light from Dim to 100%, Mesh turns all lights ON
Restrooms	Dual technology occupancy detection	Turn lights on 100% based on detected body heat, detect occupancy based on minor movement – keep lights on
Storage Room / closets	Detect occupancy	Turn on lights when occupancy detected, manual override if more time is needed
Scheduling	Bring up lights from overnight security dim, to business hours dim	Preset minimum light levels based on schedules