Project	Catalog #	Туре	
Prepared by	Notes	Date	



Interactive Menu

- Order Information page 2
- Additional Resources page 2
- Wiring Diagrams page 3
- Product Warranty

Greengate

VAC-DT MicroSet Dual Tech

Low Voltage Vacancy Ceiling Sensor

Typical Applications

Classrooms • Conference Rooms • Office Spaces • Common Areas • Computer Rooms • Break Rooms • Other Indoor

Product Certification



Product Features

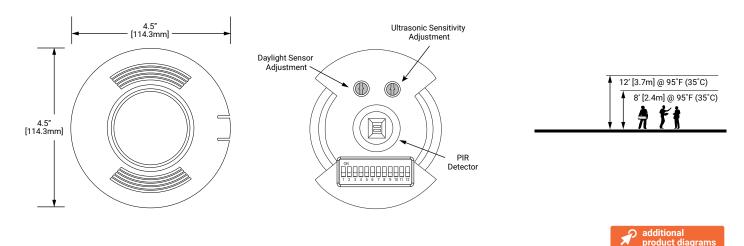


Top Product Features

- MicroSet self-adjusting Time Delay and sensitivity
- Optional built-in light level sensor
- Optional BAS/HVAC isolated relay
- Products tested to NEMA WD 7 2011 Occupancy Motion Sensors Standard
- Requires Manual On for activation

Dimensional and Mounting Details

Scale or Mounting Height





Order Information

Catalog Number

Catalog Number	Maximum Room Size	Field of View	Frequency	Features		
VAC-DT-2000-R	2000 sq. ft.	Two Way (360°)	32 kHz	w/ BAS Relay & Daylight Sensor		
VAC-DT-1000-R	1000 sq. ft.	Two Way (360°)	32 kHz	w/ BAS Relay & Daylight Sensor		
VAC-DT-0501-R	500 sq. ft.	One Way (180°)	40 kHz	w/ BAS Relay & Daylight Sensor		

Optional Accessory Components

Catalog Number

Catalog Number	Description
GMDS-W	Low Voltage Manual ON Switch(es)

Product Specifications

Technology

Passive Infrared (PIR) and Ultrasonic (US)

Mechanical

Size: 1.42" H x 4.5" W (36.068mm x 114.3mm) Mounting: Mounts directly to ceiling tile, to a 4" square box and round mud ring or to 4" octagon box

Environment:

- Operating temperature: 32°F to 104°F (0°C to 40°C)
- Relative humidity operating: 20% to 90% non-condensing
- · For indoor use only

Housing: Durable, injection molded housing. Polycarbonate resin complies with UL 94V-0

Electrical

Power Requirements:

120 to 347 VAC, 50/60 Hz - Neutral Required

- Input
 - 10-30 VDC from Greengate Switchpack or Greengate system
 - Maximum current needed is 25mA per sensor
- · Output
 - · Open collector output to switch up to ten Greengate Switchpacks
 - BAS with Isolated Form C Relay in (-R) model
 - Isolated Form C Relay Ratings: 1A 30 VDC/VAC

Hardware Specifications

LED Indicators:

- Red LED for PIR detection
- Green LED for Ultrasonic detection

Controls and Performance

Time delays:

- Self-adjustable, 15 seconds/test (10 minutes Auto), or Selectable 5, 15, 30 minutes, or Zero Time Delay
- Coverage:
- 500, 1000 and 2000 sq. ft.
- Light sensing level (-R Models):
- 0 to 300 foot candles

Standards/Ratings

- cULus Listed Energy Management Equipment (UL916)
- FCC Compliant
- RoHS Compliant

Warranty

Five year warranty standard

Overview

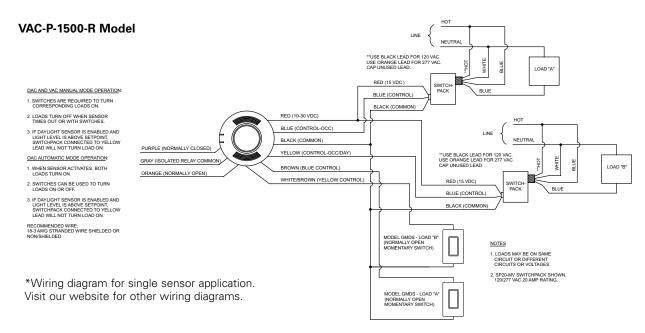
The MicroSet Dual Technology Low Voltage Vacancy Ceiling Sensor increases energy savings by requiring a Manual On input to turn ON the lighting.

The Dual Technology sensor's combination of Ultrasonic and Passive Infrared technologies offers the most complete sensing equipment available today. This pairing helps eliminate false deactivations for additional energy savings. The MicroSet self-adjusting technology continuously monitors multiple sub-frequencies in the event that if a continuous Doppler shift occurs, such as those created by airflow from an air duct, the sensor will identify the noise as continuous and then block it out of view at a select sub-frequency. It will continue to monitor other sub-frequencies for human motion. This avoids false activation, while still maintaining the high level of sensitivity that is necessary for sensing minor motion in a changing environment. Separate concurrent time delays for both Passive Infrared and Ultrasonic technologies avoid false activations or deactivations. The lights are turned ON by activating a momentary switch (model # GMDS-*) that is connected to the sensor. When enabled, the Daylighting feature prevents lights from turning ON when the room is adequately illuminated by natural light.



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Wiring Diagrams



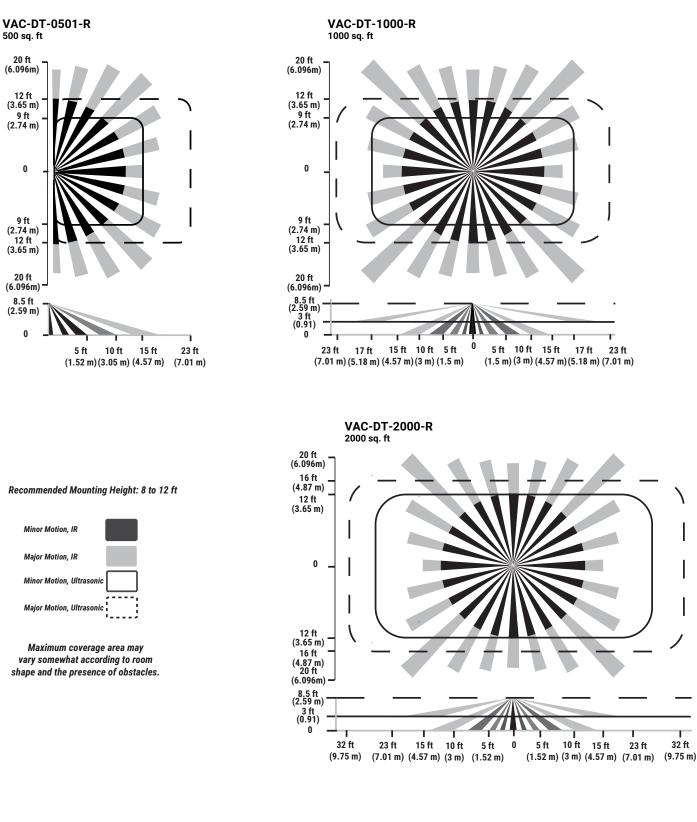
Controls

DIP Switch	Time Delay		Not Used		PIR Sensitivity		Not Used	LEDs		Override		Sweep		Full/Half Logic		HVAC/Tracking		Zero Time Delay		
	1	2	 3	<u> </u>	4		5	6	7		8	8		9	10		11		12	
Auto*	•	•				Full	•		Enable	•	Disable	•	Disable	•	Full	•	Disable	•	Disable	•
5 Minutes	•					50%			Disable		Enable		Enable		Half		Enable		Enable	
15 Minutes		-													(-R mode	el only)	(-R model only)			
30 Minutes															(,,	、	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
*Self-Adjusts to 10 min. user mode		·					•	Dagilght S	X		PIR Detector									



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Field of View







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