

Valence Pod Detection System: Access Point

The Access Point and Antennas are mounted on an intersection pole or mast-arm, providing two-way wireless communication between the Pods and Base Station. The unit may be installed in any location that provides adequate signal coverage to the sensors and the Base Station; a wired connection to the Base Station is available if there is an occlusion. There are four radios: three for broadcasting to the Pods and one for broadcasting to the Base Station.

A single omnidirectional Antenna covers the Pods located at the intersection. Long-range directional Antennas are used for advance detection when the Pods that are located up to 700 feet away. These long-range Antennas are typically mounted back-to-back on the mast-arm. Use of these long-range Antennas eliminates the need for repeaters.



FEATURES		
Radio communications	 To and from the Access Point Three radio modules talk to and from up to 130 wireless sensors 	
Relay of sensor data	 Buffers and relays data to the sensors or Base Station Wireless or wired EIA-485 connectivity between the Base Station and the Access Point 	
Master timebase for all supported wireless sensors	Synchronized through the Access PointKeeps the sensors synchronized	
Radio signal quality measurements	 Receive signal strength indicator (RSSI) of Pod link RSSI of Base Station wireless link 	
Firmware upgrades	 Can be upgraded through the Base Station Can deliver upgrades to all other Pods 	

SPECIFICATIONS			
Dimensions	6.3"H x 7.9"W x 7.9"D		
Frequency band	 2400 to 2483.5 MHz for Base Station wireless link 902 to 928 MHz (ISM unlicensed band) for Pod wireless link 		
Frequency channels	16 for Base Station wireless link60 for Pod wireless link		
Channel Bandwidth	 2 MHz for Base Station wireless link 430 KHz for Pod wireless link 		
Ambient operating temperature range	–35°F to 167°F (–37°C to 75°C)		

PART NUMBERS		
Access Point, 3 radios	50284-2003	
Access Point kit	50284-2103	

