



The Leading Enterprise Internet of Things Solution

ALTA Vehicle Detect / Counter

General Description

The Monnit wireless vehicle detect/counter sensor can be deployed to detect the presence of a vehicle or count oncoming traffic utilizing a 9 ft. pneumatic tube. Deployment is easy with the included hose anchor and mounting spikes. Simply turn the unit on with the included magnet, roll the hose out where you wish to record traffic data and pound the spikes into the asphalt. In software, select "Counting" or "Detecting" and begin recording data.

- Detects presence of vehicles as they pass over the tube.
- Can detect and count moving vehicles.
- Signal hose anchor and mounting spikes included with purchase.
- Power On/Off using included magnet



Free iMonnit basic online wireless sensor monitoring and notification system to configure sensors, view data and set alerts via SMS text and email.

Principles of Operation

The Industrial ALTA Wireless Vehicle Detect / Counter detects or counts vehicles that drive over the 9ft. long rubber tube. This device ignores humans or animals that step on the tube to prevent miscounts. This sensor is ideal for use in parking garages and monitoring traffic conditions for automotive services.

Example Applications

- Parking garages
- Traffic monitoring (volume of flow)
- Automotive service notifications
- Fleet management

And many more ...

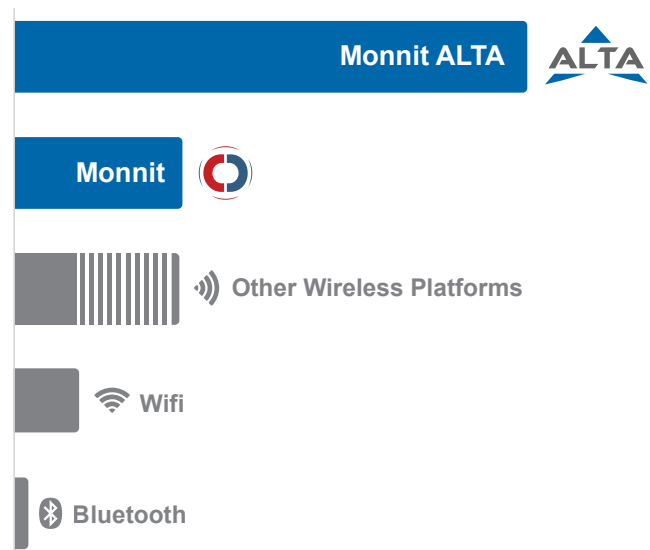
Features of Monnit ALTA Sensors

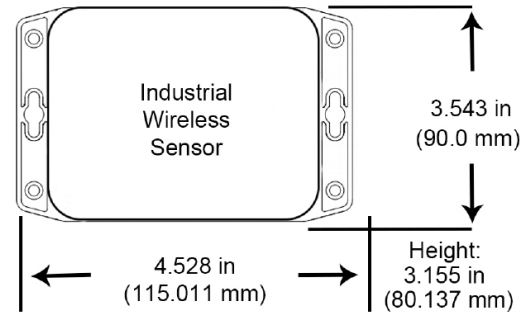
- Wireless range of 1,200+ feet through 12+ walls *
- Frequency-Hopping Spread Spectrum (FHSS)
- Improved interference immunity
- Improved power management for longer battery life ** (12+ years on AA batteries)
- Encrypt-RF[®] Security (Diffie-Hellman Key Exchange + AES-128 CBC for sensor data messages)
- All ALTA sensors now have up to 3200 readings:
 - 10-minute heartbeats = 22 days
 - 2-hour heartbeats = 266 days
- Over-the-air updates (future proof)
- Free iMonnit basic online wireless sensor monitoring and notification system to configure sensors, view data and set alerts via SMS text and email

* Actual range may vary depending on environment.

** Battery life is determined by sensor reporting frequency and other variables. Other power options are also available.

Wireless Range Comparison





ALTA Industrial Wireless Vehicle Detect / Counter | Technical Specifications

Supply Voltage	2.0 - 3.6 VDC *	
Operating Temperature Range (Board Circuitry and Battery)		
Included Battery	Max Temperature Range:	-40°C to +85°C (-40°F to +185°F) **
	Capacity:	1500 mAh
Power On/Off	Magnet included with accessories	
Vehicle Sensing	Pneumatic tire tube	
Weight (with hose and accessories)	6 lbs.	
Enclosure Rating	NEMA 1, 2, 4, 4x, 12 and 13 rated, sealed & weather proof	
UL Rating	UL Listed to UL508-4x specifications (File E194432)	
Wireless Range	1,200+ ft non-line-of-sight	
Security	Encrypt-RF® (256-bit key exchange and AES-128 CTR)	
Certifications	900 MHz product; FCC ID: ZTL- RFSC1 and IC: 9794A-RFSC1. 920 MHz product; ARIB STD-T108 R210-103733. 868 and 433 MHz product tested and found to comply with: CISPR 22:2008-09 / EN 55022:2010 - Class B and ETSI EN 300 220-2 V2.4.1 (2012-05).	



- * **Hardware cannot withstand negative voltage.** Please take care when connecting a power device.
- ** Signal hose anchor and mounting spikes included with purchase.

Commercial Grade Sensors

Monnit commercial grade sensors are designed for applications in ordinary environments (normal room temperature, humidity and atmospheric pressure). Do not use these sensors under the following conditions as these factors can deteriorate the product characteristics and cause failures and burnout.

- Corrosive gas or deoxidizing gas: chlorine gas, hydrogen sulfide gas, ammonia gas, sulfuric acid gas, nitric oxides gas, etc.
- Volatile or flammable gas
- Dusty conditions
- Low-pressure or high-pressure environments
- Wet or excessively humid locations
- Places with salt water, oils chemical liquids or organic solvents
- Where there are excessively strong vibrations
- Other places where similar hazardous conditions exist

Use these products within the specified temperature range. Higher temperature may cause deterioration of the characteristics or the material quality.

Industrial Grade Sensors | Type 1, 2, 4, 4X, 12 and 13 NEMA Rated Enclosure

Monnit's Industrial sensors are enclosed in reliable, weatherproof NEMA-rated enclosures. Our NEMA-rated enclosures are constructed for both indoor or outdoor use and protect the sensor circuitry against the ingress of solid foreign objects like dust as well as the damaging effects of water (rain, sleet, snow, splashing water, and hose-directed water).

- Safe from falling dirt
- Protects against wind-blown dust
- Protects against rain, sleet, snow, splashing water, and hose-directed water
- Increased level of corrosion resistance
- Will remain undamaged by ice formation on the enclosure



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