

# NEMA Enclosure Kits with AirTight 802.11n Sensor

Pre-assembled Solutions for Easy, Secure, Weatherproof Deployment  
 Covered by AirTight warranty and support

## Sturdy and Reliable for Hazardous Environments

AirTight offers two different SpectraGuard Sensor Assemblies in NEMA approved enclosures:

- a sealed unit- for indoor use or for outdoor use in moderate temperature environments
- a heated/cooled unit- for outdoor use in more extreme weather conditions

The enclosure protects against environmental hazards and keeps the sensor and installation safe.

- Protects against moisture, corrosive elements
- Protects against theft or damage

## Fast complete installation

The pre-assembled enclosures facilitate quick installation. You save time and save money in installation costs.

## Installation Guidelines

- The NEMA units can be mounted indoors- on interior walls or inside false ceiling, or outdoors- on exterior walls, utility poles or other outdoor fixtures.
- The antennas should be properly mounted following guidelines provided with the assemblies.
- AirTight strongly recommends that customers use a licensed electrician/ contractor for installation and follow local building codes.

## Power Requirements

The SpectraGuard Sensor requires 802.3af POE.

The heated/cooled unit requires 120V AC power to the unit to run the heater and fan.

## List of Components

The NEMA enclosure kits include the following components:

- AirTight SS-300-AT (802.11n) SpectraGuard Sensor
- NEMA enclosure (Sealed unit or Heated/cooled unit)
- Two single-band external antennas each for 2.4 and 5 GHz bands (Figure 1) **OR** One dual-band (2.4/5 GHz) 6-pack MIMO external antenna (Figure 2)
- Required connectors
- Four lightning arrestors and four 20 foot low loss cables (not applicable for 6-pack MIMO antenna)

The assemblies DO NOT include the following, which the customer must supply:

- Ethernet cable, POE injector
- Grounding cables/kit
- Power cable for heated/cooled unit
- NEMA mounting kit



Figure 1



Figure 2

## Detailed Specifications

Enclosure Specifications	Sealed Unit	Heated/Ventilated Unit
Enclosure Material	Fiberglass reinforced polyester	Fiberglass reinforced polyester
Enclosure Color	Machine grey	Machine grey
Enclosure Flame Rating	UL 94-5V	UL 94-5V
RoHS Compliant	Yes (both enclosure and lightning arrestor)	Yes (both enclosure and lightning arrestor)
Enclosure Ratings	NEMA 4X/IP65	NEMA 3R/IP42
Outside Dimensions	15.5 x 13.5 x 7.7 inches	15.5 x 13.5 x 8.7 inches
Weight	18.7 lbs	20.6 lbs
Mounting	Pre-drilled mounting holes in enclosure	Pre-drilled mounting holes in enclosure
Operating Temperature Range	5° to 50° C	Heater operates below 10° C, fan operates above 45° C
Fan operates above 45° C	10 Watts	
Humidity	Up to 95% non-condensing	Up to 95% non-condensing
Power Requirements	Sensor requires 802.3af PoE	Fan & heater require 120V AC, Sensor requires 802.3af PoE
Grounding Specifications	As specified by local building codes	As specified by local building codes
<b>Lightning Protector Electrical Specifications</b>		
Frequency Range	0-6 GHz 0-6 GHz	0-6 GHz 0-6 GHz
VSWR	1:1.5 Max (0-6GHz)	1:1.5 Max (0-6GHz)
Insertion Loss	0.5 db Max (0-6GHz)	0.5 db Max (0-6GHz)
Impedance	50 Ohm	50 Ohm
Gas Tube Breakdown Voltage	90V ± 20%	90V ± 20%
Gas Tube Impulse Breakdown Voltage	1000V ± 20%	1000V ± 20%
RF Power Rating (CW)	10W Continuous	10W Continuous
<b>Cable and Antenna Specifications (not applicable for 6-pack MIMO antenna)</b>		
Antenna Cable Length	Four 20 feet low-loss cables	Four 20 feet low-loss cables
Antenna Cable Specs	Attenuation = 6 to 11 db per 100 feet	Attenuation = 6 to 11 db per 100 feet



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### Secure Cloud-Managed Wi-Fi

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