FCC requirements § 2.1033 (b)(3)

INSTALLATION INSTRUCTIONS FOR ALARM SENSOR UNIT (ATLAS DETECTOR)

Installation Instructions furnished to the user of the ATLAS Detector (alarm sensor unit) follow this page and contain 2 pages.

Dual Technology Passive Infrared/Microwave Detector - 1 or 2 Pulse Count, RFI/EMI Immunity, Microprocessor Based, Bc
Comptage Impulsions 1 ou 2) - Immunité aux Interférences radioélectriques et électromagnétiques - Gestion par micropr
Tecnologia - Infrarrojo Pasivo/ Microondas . Conteo de 1 ó 2 Pulsos, Inmunidad a Interferencias de RFIEM, Basado en Mic

English

Location of Detector

Consider the following before mounting the detector:
- Select a location from which the pattern of the detector is most likely to be crossed by a burglar, should there be a break in.
- Do not place bulky objects in front of the detector.
- Avoid a location which comes in direct contact with radiators, heating/cooling ducts or air conditioners.
- Do not place the detector in front of windows subject to direct sunlight or drafts.
- Select an appropriate height and vertical angle from the following table:

Coverage	Lens Type	Installation Height	Vertical Scale
50ft/16m	Stand.	7.2ft/2.2m	+2
40ft/12m	Stand.	7.2ft/2.2m	0
20ft/6m	Stand.	7.2ft/2.2m	-4
50ft/16m	Pet	4ft/1.2m	0
40ft/12m	Pet	4ft/1.2m	0
20ft/6m	Pet	4ft/1.2m	0

- Atlas Microphone Units: Do not place objects near the microphone opening as this will obstruct the unit's listen in capabilities.

Installation Instructions

1. Open the housing by removing the front cover. To do so, press the tab located on the bottom of the detector.
2. Remove the PCB by unscrewing the board from the rear of the protective plastic casing. Note: Do not touch the face of the PYRO sensor.
   Knock out the mounting and wiring holes.
4. Thread wires through the wiring holes (from the outside of the unit) using the appropriate wiring hole knock outs.
5. Choose an appropriate mounting height from table 1 and attach the base to the wall. Note: This equipment should be installed in accordance with the NFPA 70 standard.
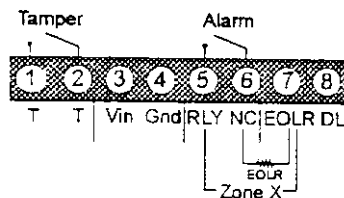6. Connect the wires to the terminal block located on the right side of the PCB as shown in Figure 1.

Tamper   Alarm

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

T   T   Vin Gnd RLY NC EOLR DL

EOLR
Zone X

Figure 1: Terminal Block

1=tamper, 2=tamper, 3=+Vin, 4=GND, 5=relay, 6=relay, 7=EOLR (optional End Of Line Resistor), 8=Disable LED. *Note: Electronics Line recommends using 20 - 22 AWG connection cable.*

7. Mount the PCB at the required vertical adjustment and replace the PCB screw.
   Adjust the microwave amplifier gain by turning the trimmer (located below the microwave antenna) clockwise to increase sensitivity or counter-clockwise to decrease sensitivity.
8. Set the DIP switches according to the following:

Switch	↓ OFF	↑ ON
1	LED indicator OFF (disabled)	LED indicator ON (enabled)
2	Pulse counter 2	Pulse counter1
3	50Hz Filter	60Hz Filter

Table 2

10. Atlas Microphone Units: connect the wires to the microphone's terminal block located on the lower left portion of the PCB according to the following terminals (left to right): 1=Microphone Gnd, 2=Microphone Output. Adjust the microphone trimmer by turning the trimmer clockwise to increase sensitivity or counterclockwise to decrease sensitivity. *Note: The microphone feature is not suitable for UL installation.*
11. Attach the front cover, making sure to click the plastic housing closed.

Operation and Adjustment

- Apply 9 - 16 Vdc and allow the detector to stabilize for 90 seconds.
- Make sure that the pulse counter and LED indication have been set.
- Conduct a walk test by walking across the area protected by the detector. Confirm that the three LEDs activate and deactivate (after 2 motion free seconds). LED indication of microwave detection will only occur after PIR detection. The LED indicators are as follows:

LED	Indication
Red	Alarm detection
Yellow	Microwave detection
Green	PIR detection

Table 3

- To remote enable the LEDs, provide 0V from the control panel to the D.L. pin in the terminal block. To remote disable the LED provide 12V.

- Changing Lenses: To change a lens, release the lens frame using a small screwdriver and fix the new lens into place with the smooth side facing outwards. Verify that the word TOP is located at the top of the lens before snapping the lens frame back into place.

Please note the following:
LED indication of a walk test is dependent on the LED indicator DIP switch selection and the usage of the LED remote enable/disable option. It is recommended to enable LED indication, set the detector to 1P for the walk test and to have the microwave trimmer set to maximum. The detector should be walk tested weekly.

ATLAS
620 / 1240 / 1650

k Radiation Prevention, Temperature Compensation, Look Down Zone, Microphone Option • Détecteur double technologie IRP et hyperfréquences - cesseur - Protection contre le champ arrière parasite - Compensation de température - Détection zone basse - Option microphone • Detector de Doble oprocesador de Señales, Prevención de Retro-Radiación, Con Compensación de Temperatura, Detección de Angulo Cero, Micrófono Opcional.

The unit is to be connected to a UL Listed power supply or control unit capable of providing a minimum of 4 hours of standby power.

The detector is set up for high gain, and therefore will detect at a maximum range.

Units using a pet lens should have their look-down zones blocked to reduce the probability of a false alarm.

Technical Specifications

Input Voltage: 9 - 16Vdc.

Current Consumption: Standby 20mA @12V.
 Max. (Alarm) 34mA @16V.
 Max. (Alarm) with Microphone 37mA @16V.

Coverage (refer to Figure 2): 620 - 6m/20ft.
 1240 - 12m/40ft.
 1650 - 16m/50ft.

Alarm Duration: 2 second minimum.

PIR Pulse Count: 1 or 2 DIP switch selectable.

PIR Sensor: Dual pyroelectric element.

Microwave Antenna:
 Built-in with back radiation shield.

Microwave Frequency:
 10.525 GHz, 9.9 GHz, 10.687 GHz.

RFI Immunity:
 30 Volts/Meter between 25MHz to 1 GHz.

Alarm Relay Output: N.C., Dry Contacts, max.
 Switching 30Vdc 0.3A max not to exceed 10W.

Tamper Switch: N.C., Contact Rating 30Vdc, 50mA max.

Optional Rear Tamper Switch: 12Vdc, 50mA max

Operating Temperature: -7° to 55°C.

Optional Microphone:
 Sensitivity: -60 dBA.
 Frequency Response: 20-15,000Hz.
 S/N Ratio: 40 dB.
 Current Consumption: 0.6mA max.

Maximum Humidity: Up to 95%.

Temperature Compensation: Thermistor.

Reverse Polarity Protection: Diode.

Fire Protection: ABS.

LED Indication: DIP switch selectable.

Warm-up Period: 90 seconds.
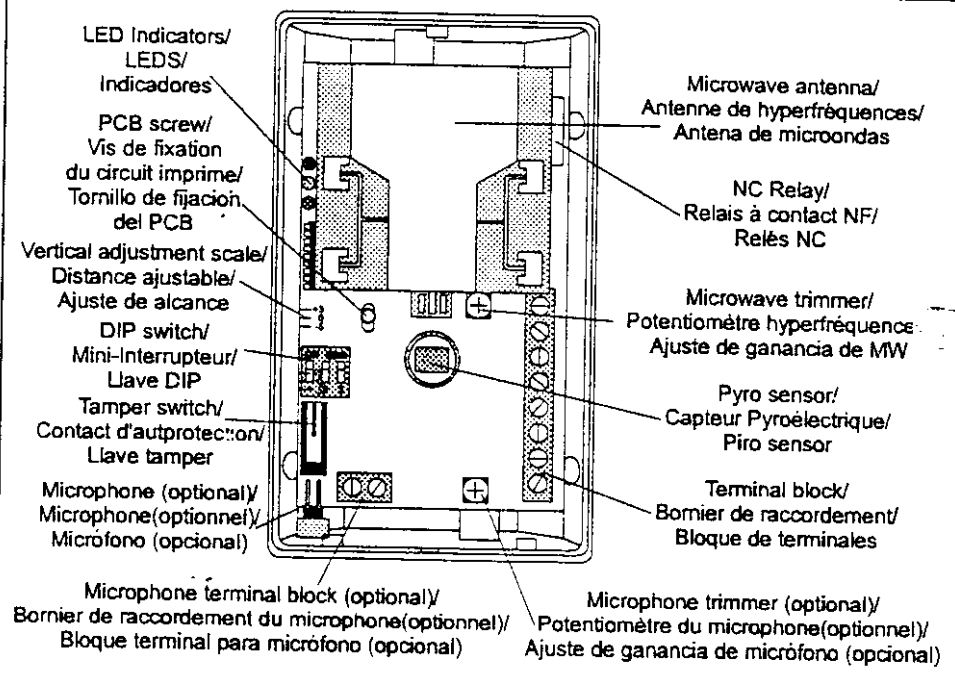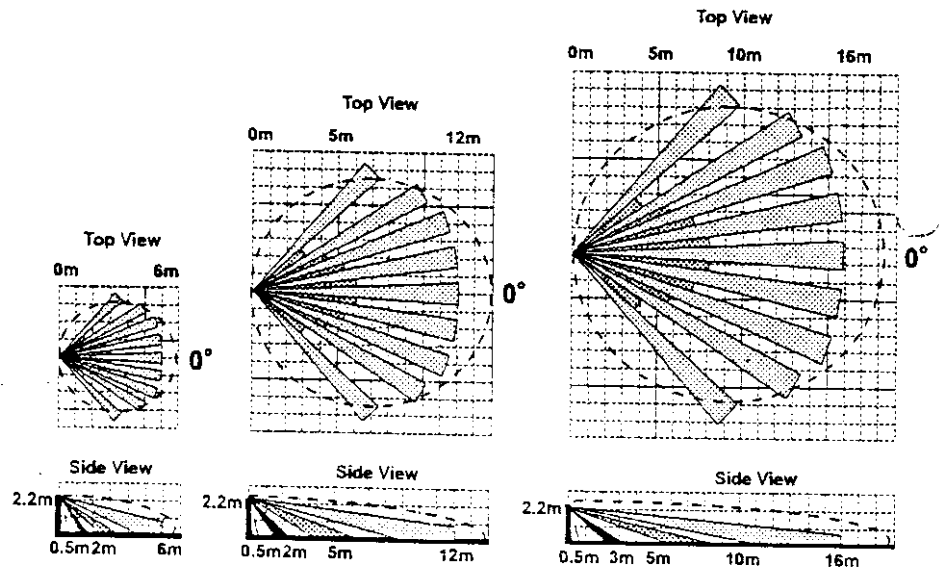
Dimensions: 4.4 x 2.8 x 2.2"/113 x 70 x 55mm.

LED Indicators/ LEDS/ Indicadores
PCB screw/ Vis de fixation du circuit imprime/ Tornillo de fijación del PCB
Vertical adjustment scale/ Distance ajustable/ Ajuste de alcance
DIP switch/ Mini-Interrupteur/ Llave DIP
Tamper switch/ Contact d'autprotection/ Llave tamper
Microphone (optional)/ Microphone(optionnel)/ Micrófono (opcional)

Microwave antenna/ Antenne de hyperfréquences/ Antena de microondas
NC Relay/ Relais à contact NF/ Relés NC
Microwave trimmer/ Potentiomètre hyperfréquence/ Ajuste de ganancia de MW
Pyro sensor/ Capteur Pyroélectrique/ Piro sensor
Terminal block/ Bornier de raccordement/ Bloque de terminales

Microphone terminal block (optional)/ Bornier de raccordement du microphone(optionnel)/ Bloque terminal para micrófono (opcional)

Microphone trimmer (optional)/ Potentiomètre du microphone(optionnel)/ Ajuste de ganancia de micrófono (opcional)

Figure 2: PCB / Figure 2: Circuit Imprimé / Figura 2: PCB

Standard Lens Patterns / Zones de Couverture / Diagramas de Detección

ATLAS 620

ATLAS 1240

ATLAS 1650