

AlarmNet CELL-ANTRA

Indoor Fixed Length Antenna

Installation Guide

General

The Communication Module uses an internal fixed length, dual band cellular antenna. In most cases, this antenna will provide sufficient received signal strength for a successful installation.

The Honeywell Indoor Fixed Length Antenna should be used in installations where moving the antenna to a higher point within the building will provide better signal strength.

Kit Includes: Antenna with cable
Antenna accessory pack
Hardware

Compatible Modules: CDMA-X, CDMA-L3 and CD6000H.

Signal Strength

For reliable service, the communication module should only be installed in locations where there is satisfactory signal strength. The Minimum Signal Strength (green) LED lights steady to indicate satisfactory signal strength. The signal strength value measured in dBm can be viewed using two methods:

- Radio Device Diagnostic Mode: Installer Code (ex. 6321) + 899 (for CDMA-L3 and CD6000H.)
- 7720P Programming Tool: Shift <E>.



dBm is displayed as a negative value and a smaller negative number is better, i.e., -60 dBm is a better signal strength than -100 dBm.

Installation Guidelines

Use these guidelines to maximize the performance of the communication module.

- Find the best coverage before final mounting by moving the alarm panel/communication module to several locations while monitoring the signal strength.
- The best signal strength can usually be found on an exterior wall at the highest point in the building. Avoid the basement.
- Maintain at least 12 inches of clearance between the communication module and steel I-beams, HVAC ducts, metal studs, steel roofs or roofs, exterior walls with metalized insulation or aluminum siding and other large metal objects.

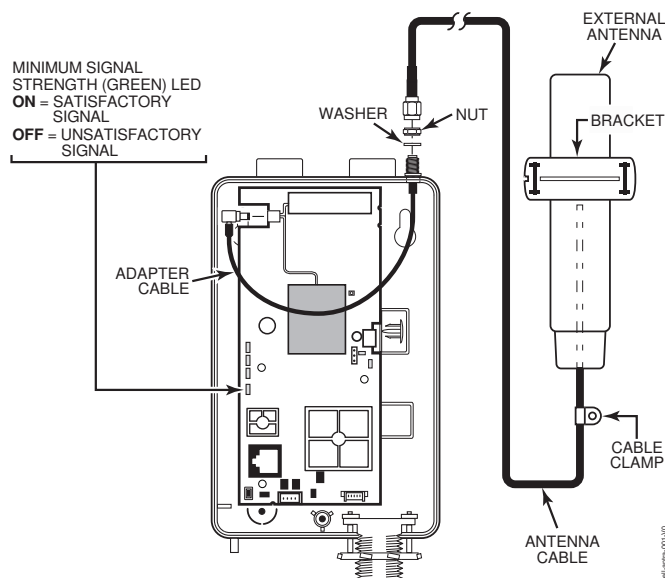
If consistent signal strength cannot be found with the internal antenna, an external antenna should be used.

Indoor Antenna

The antenna is not weatherproof, and must be installed indoors and mounted vertically while maintaining 12 inches of clearance from large metal objects. Install the antenna as follows:

1. Measure and record the communication module signal strength using the internal antenna for reference.
2. Disconnect all power from the alarm panel/communication module, including the battery.
3. Remove the plastic plug from the SMA mounting hole on top of the alarm panel or communication module housing, and insert the SMA end of the adapter cable.
4. Secure the SMA connector with the included washer and nut.
5. Plug the TS9 right angle connector on the other end of the adapter cable into the communication module's external antenna port and route cable as shown in Figure 1.
6. Find a suitable location that will allow the antenna to be mounted vertically.
7. Route the antenna cable and connect its SMA end to the top of alarm panel or communication module housing.
8. Restore power to the unit, and check that the Minimum Signal Strength (green) LED lights steady and compare the new value to the value recorded in step 1.
9. If needed, adjust the location of the antenna until the Minimum Signal Strength LED lights steady green.
10. Permanently mount the antenna vertically using the included hardware.

CDMA-X Communication Module



CDMA Communication Module for LYNX Plus Series

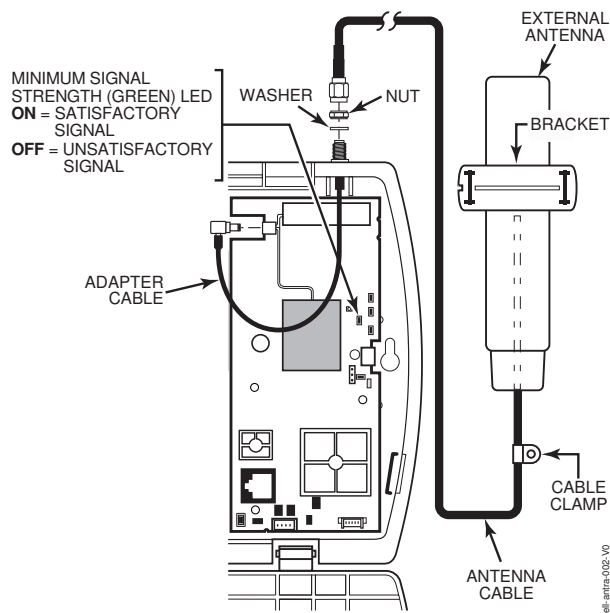
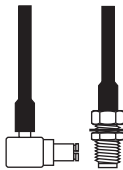



Figure 1 – CELL-ANTRA Indoor, Fixed Length Antenna Installation

Specifications

Antenna				Adapter Cable	
Type	Dual band, dipole, PCB	VSWR	<2:1	SMA female to TS9 right angle male 	
Bands	824-896 MHz 1850-1990 MHz	Dimensions	143 x 27 mm		
Polarization	Linear	Cover	Polyolefin, black		
Gain (Average)	1dBi	Cable Type	RG-174		
Impedance	50 Ohms	Cable Length	3m		
Input Power (Max.)	10W	Connector Type	SMA male 		

RF Exposure

Warning – The internal or external antenna(s) used with this product must be installed to provide a separation distance of at least 7.8 in. (20 cm) from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter except in accordance with FCC multi-transmitter product procedures.

Mise en Garde

Exposition aux Fréquences Radio: L'antenne (s) utilisée pour cet émetteur doit être installée à une distance de séparation d'au moins 7,8 pouces (20 cm) de toutes les personnes.

IMPORTANT NOTE ABOUT EXTERNAL ANTENNAS

If an external cellular radio antenna is used, the antenna may be installed or replaced ONLY by a professional installer.

TO THE INSTALLER

For the communication module/alarm panel, the external antenna must not exceed a maximum directional gain (including cable loss) of 3.2 dBi at 850 MHz and 2.3 dBi at 1900 MHz.



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