Honeywell

K14372 8/06 Rev. A AlarmNet GSM-ANT Indoor, Fixed Length Antenna

Installation Guide

General

7845GSM and 7845i-GSM Communication Modules both come equipped with an internal dual band cellular antenna. In most cases, this antenna will provide a sufficient received signal strength indication (RSSI) for a successful installation.

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

Signal Strength

For reliable service, 7845GSM and 7845i-GSM should only be installed in locations where the RSSI is a minimum of three bars. RSSI is a measure of how well the 7845GSM/7845i-GSM is receiving the cell tower. The RSSI value measured in dBm can be viewed using the 7720P Programming Tool, by using the *shift* $\langle E \rangle$ command.



dBm is displayed as a negative value on the 7720P and a smaller negative number is better. i.e., -60 dBm is a better RSSI than -100 dBm.

Installation Guidelines

By following a few simple guidelines, you can maximize the performance of the 7845GSM/7845i-GSM and simplify your installation.

- Find the best coverage before mounting and wiring the radio by moving 7845GSM/7845i-GSM to several locations while monitoring the RSSI.
- The best RSSI 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 7845GSM/7845i-GSM 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 a consistent RSSI of three bars cannot be found with the internal antenna, an external antenna should be used.

External Antenna

The GSM-ANT 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 7845GSM/7845i-GSM RSSI using the internal antenna for reference.
- 2. Disconnect all power from the unit, including the battery.
- 3. Remove plastic plug from the SMA mounting hole on top of the 7845GSM/7845i-GSM, and insert the SMA end of the adapter cable.
- 4. Secure the SMA connector with the included washer and nut.
- 5. Plug the MMCX end of the adapter cable into the 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 the SMA to the 7845GSM/7845i-GSM.
- 8. Restore power to the unit, measure the RSSI and compare the new value to the value recorded in step 1.
- 9. Adjust the location of the antenna to maximize the RSSI, for at least three bars.
- 10. Permanently mount the antenna vertically using the included hardware.

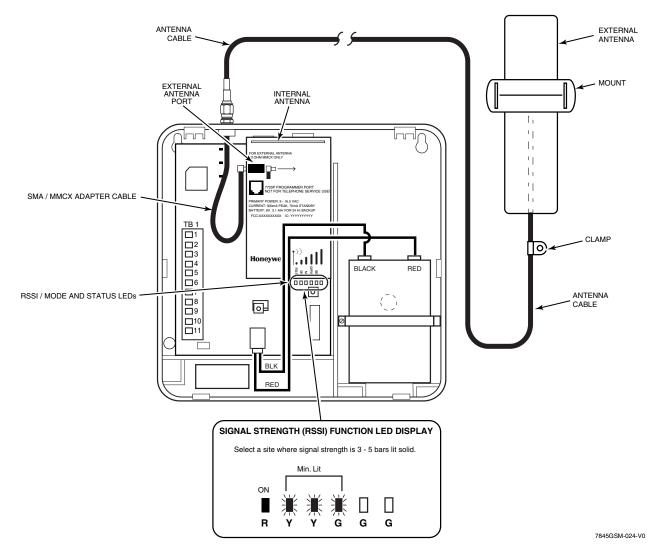


Figure 1 – GSM-ANT Indoor, Fixed Length Antenna Installation

SPECIFICATIONS:	. , , , , , , , , , , , , , , , , , , ,	5	
Туре:	Dual band, dipole, PCB	VSWR:	<2:1
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

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