

# GS-8ANTP Placement and Installation Instructions

The GS-8ANTP is an indoor remote antenna for the SCW9055/SCW9057. It increases the signal strength received by the communicator module.

## Specifications

Antenna	GS-8ANTP
Frequency	850/900/1800/1900/2100 MHz
Gain	2dBi (with 8' LMR-100 cable)
Polarization	Vertical
Maximum Input Power	20W
Elevation Beam Width (3dB)	60°
VSWR	2.5:1 (max.)
Impedance	50 Ohms
Total Weight	125g (0.275lbs)
Dimensions	140mm x 80mm x 20mm (5.5" x 3.15" x 0.8")
Operating Temperature	- 20°C to +70°C (-4°F to 158°F)
Storage Temperature	- 40°C to +80°C (-40°F to 176°F)
LMR-100 Cable	
Cable Length	2.4m (8')
Connector Type	MMCX R/A (Male)

**WARNING: There are hazardous voltages up to 240VAC (40VA) and/or TNV circuits within the panel cabinet.**

## Out of the Box

- 1 - Antenna
- 1 - Installation instructions
- 2 - Self tapping screws
- 2 - Wall plugs
- 2 - Plugs
- 1 - Slot baffle
- 2 - Double-sided adhesive
- 1 - Cable tie

## Compatible Communicators

- 3G2055
- 3G2075
- TL2553G
- GS2055

## Removing the Existing Antenna Cable from the Alarm Panel

1. Disconnect the AC and telephone lines from the SCW9055/9057.
2. Remove the front cover of the alarm panel. Disconnect the battery wire and ribbon cable from the connectors on the front panel.
3. Carefully disconnect the antenna cable from the radio module and the on-board antenna on the communicator.  
- To remove the cable, grasp the end cable connector and lift straight up, as shown in Figure 1.

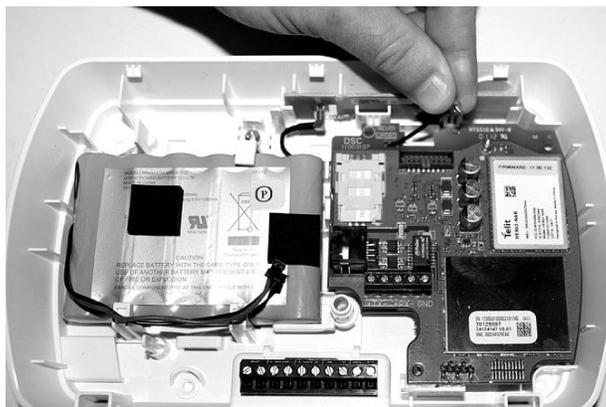


Figure 1 - Removing the Cable

4. Press the retaining tab at the bottom of the communicator and lift the bottom of the PCB.
5. Slide the PCB down to remove from the top retaining clips and remove the antenna cable from the enclosure.

**WARNING: Use these instructions in conjunction with the TL2X53G/3G20X5/GS20X5 Installation Manuals. Disconnect power and telephone lines during the installation of the GS-8ANTP antenna. Use the GS-8ANTP antenna in conjunction with the supplied coaxial cable only. The GS-8ANTP antenna must be installed by service persons only. Use caution when installing the GS-8ANTP antenna near power lines.**

6. Place the PCB back in place by sliding it up under the top retaining clips. Gently press down on the PCB until the bottom retaining tab snaps into place.

### Connecting the New Antenna Cable

1. Insert the MMCX connector end of the provided extension antenna from the back of the alarm panel through the opening directly above the terminal block.
2. Carefully connect the MMCX connector to the radio module.

**NOTE:** The antenna connector must be placed across the PCB as indicated in Figures 2 and 3 below.



Figure 2 - TL25XGS / GS20X5



Figure 3 - TL2XX3G / 3G20XX

3. Secure the extension cable to the plastic base of the alarm panel using the supplied cable tie, as shown in Figure 4.



Figure 4 - Securing the Antenna Connector

4. Plug the battery wire and ribbon cable into the connectors on the front of the alarm panel.
5. Re-attach the front cover by snapping it into place.

### GS-8ANTP - Antenna Placement Test

To choose a suitable location for the GS-8ANTP, perform an antenna placement test by moving the antenna around to determine the location which displays the highest signal strength. The relative signal strength is indicated in programming section [850] Cellular Signal Strength of the control panel. See the communicator installation manual for more details.

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### Notes regarding antenna placement:

- The antenna must be installed on the wall using the supplied hardware. Ensure the antenna is mounted as high as possible (i.e., close to the ceiling) to obtain maximum signal strength.
- Avoid installing the antenna on or near metallic surfaces.
- The antenna must only be used indoors in non-hazardous locations only.
- Locate the antenna away from possible sources of electrical interference.
- The antenna must be mounted in a vertical orientation to obtain optimal signal strength. Refer to Figure 5 below.
- If the signal strength is poor try relocating the antenna left or right, up or down a few inches.

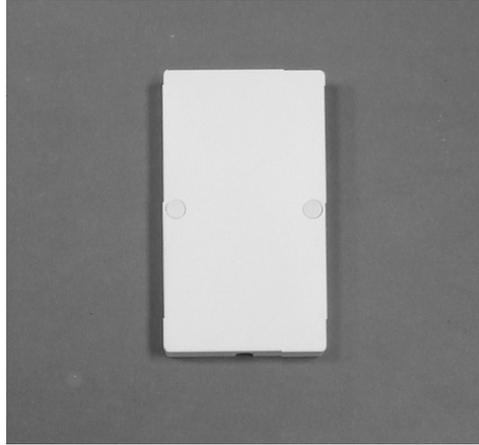


Figure 5 - Antenna Orientation

### GS-8ANTP Antenna Installation

When installing the GS-8ANTP to the proposed location:

1. Ensure the antenna is mounted vertically (see Figure 5).
2. Secure the antenna to the wall using the screws and wall plugs, or the double-sided adhesive tape provided.  
**NOTE: The adhesive tape must not be used for mounting in UL/ULC installations.**
3. Use the full length of the antenna cable supplied; do not cut or splice the cable.
4. Cable can be surface mounted or fished through the wall on which the antenna is mounted. If surface mounted, the knock-out on the slot baffle must be removed prior to running antenna wire (see Figure 6).

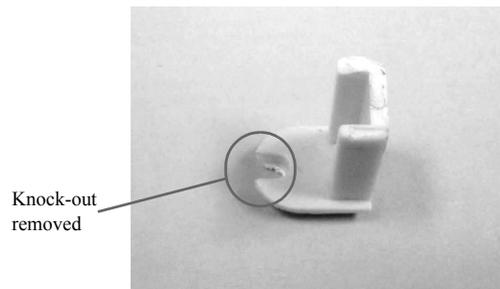


Figure 6 - Slot Baffle Knock-out

5. If turning the cable through a 90 degree corner, ensure that the bend radius is more than 1”.
6. Ensure the antenna is in a physically secure location to avoid tampering.
7. Any excess cable should be coiled close to the communicator unit. Do not over coil the cable; ensure the coil diameter is not less than 6”.
8. When using the full length of the cable for the antenna installation, ensure the cable does not place strain on the equipment.

**NOTE: Ensure wiring is routed in a manner that is not hazardous to the end user, loosening of terminal connections and/or excessive strain on wires.**

### GS-8ANTP Antenna Placement Confirmation

Once the GS-8ANTP antenna is mounted, retest it in the proposed location to verify the signal strength is acceptable.

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## LIMITED WARRANTY

Digital Security Controls (DSC) warrants that for a period of 12 months from the date of purchase, the product shall be free of defects in materials and workmanship under normal use and that in fulfillment of any breach of such warranty, DSC shall, at its option, repair or replace the defective equipment upon return of the equipment to its repair depot. This warranty applies only to defects in parts and workmanship and not to damage incurred in shipping or handling, or damage due to causes beyond the control of DSC such as lightning, excessive voltage, mechanical shock, water damage, or damage arising out of abuse, alteration or improper application of the equipment. The foregoing warranty shall apply only to the original buyer, and is and shall be in lieu of any and all other warranties, whether expressed or implied and of all other obligations or liabilities on the part of DSC. DSC neither assumes responsibility for, nor authorizes any other person purporting to act on its behalf to modify

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Warning: DSC recommends that the entire system be completely tested on a regular basis. However, despite frequent testing, and due to, but not limited to, criminal tampering or electrical disruption, it is possible for this product to fail to perform as expected. Important Information: Changes or modifications not expressly approved by DSC could void the user's authority to operate this equipment.

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Toronto, Canada • [www.dsc.com](http://www.dsc.com)

Tech Support: 1-800-387-3630 (Canada, USA), 905-760-3000

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