

# GS-15/25/50ANTQ Placement and Installation Instructions

## SPECIFICATIONS

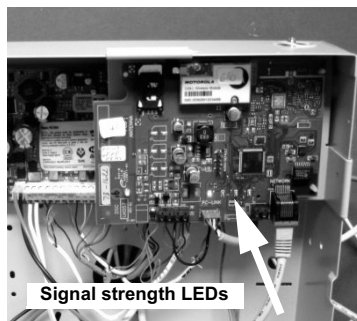
Antenna	GS-15ANTQ	GS-25ANTQ	GS-50ANTQ
Antenna Type	Quad-band Dipole	Quad-band Dipole	Quad-band Dipole
Gain	2dBi	3dBi/6dBi (low/high band)	3dBi/6dBi (low/high band)
Polarization	Vertical	Vertical	Vertical
GSM Frequency Bands	900/1800 & 850/1900	900/1800 & 850/1900	900/1800 & 850/1900
Azimuth Beamwidth	Omni-directional	Omni-directional	Omni-directional
Elevation Beam width (3dB)	60°	40°	40°
VSWR (max.)	2.5:1	2.5:1	2.5:1
Impedance	50 Ohms	50 ohms	50 ohms
Total Weight, inc Cable (lb/kg)	0.82lb / 0.37kg	2.2lb / 1kg	5lb / 2.3kg
Antenna Length/Diameter (inch/mm)	8.2"(208mm) / 0.46"(12mm)	24"(600mm) / 0.79"(20mm)	24"(600mm) / 0.79"(20mm)
<b>Coaxial Cable</b>			
Cable Length (ft/m)	15' / 4.5m	25' / 7.6m	50' / 15.2m
Connector type	SMA (Male)	SMA (Male)	SMA (Male)
<b>Jumper Cable</b>			
Cable Length (inch)	5"	5"	5"
Connector types	SMA (Female) to MMCX (Male)	SMA (Female) to MMCX (Male)	SMA (Female) to MMCX (Male)

## PREPARING A PANEL FOR GS-15/25/50ANTQ INSTALLATION

### Preparing the TL260GS/GS2060

- Power down the system.
- Remove the supplied white whip antenna from the panel cabinet by rotating the base of the antenna anti-clockwise.
- Ensure the brass nut holding the threaded section remains and is "finger" tight.
- Remove the cabinet's front cover to allow visibility of the green signal strength LEDs on the communicator board.
- Connect the free cable end of the extension antenna onto the extension antenna screw.
- Pull down the rubber sleeve on the extension antenna cable over the connection point (see picture).
- Power up the unit by connecting at the mains.

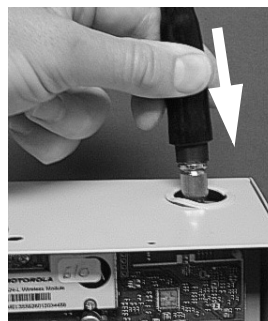
**WARNING: There are HAZARDOUS VOLTAGES up to 240VAC (40VA) and/or TNV circuits within the panel cabinet.**



TL260 with antenna removed



Brass nut



TL260 – fitting cable sleeve

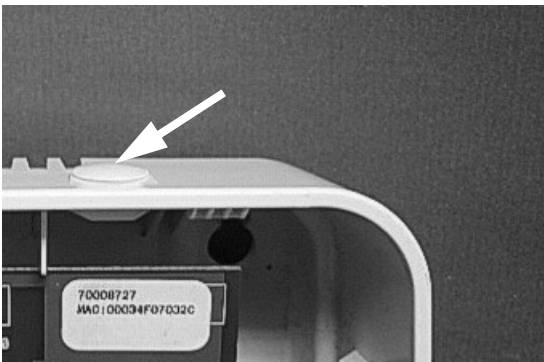


Extension antenna connected

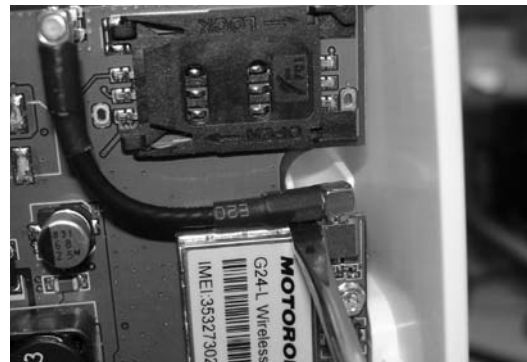
**WARNING: These instructions shall be used in conjunction with the TL260GS/TL265GS/GS2060/GS2065 Installation Manual. Disconnect power and telephone lines during the installation of the GS-15ANTQ, GS-25ANTQ or GS-50ANTQ antennas. The GS-15ANTQ, GS-25ANTQ and GS-50ANTQ antennas shall be used only in conjunction with the supplied coaxial cable. The GS-15ANTQ, GS-25ANTQ and GS-50ANTQ antennas shall be installed by service persons only. Use caution when installing the GS-25ANTQ and GS-50ANTQ antennas near power lines. The outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits, as contact with them might be fatal. NEVER install the antenna during a lightning storm. When installation is complete, verify that the mounting is secure and the connector is properly attached. Ensure the antenna installation is earthed.**

## Preparing the TL265GS/GS2065

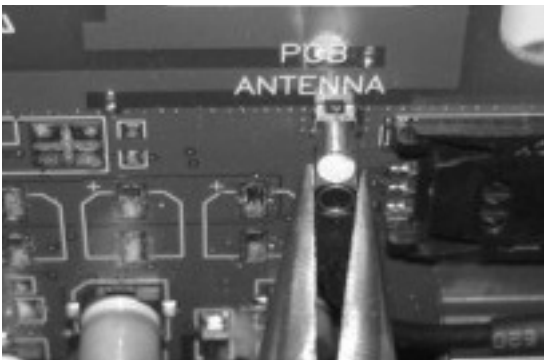
- Remove the front cover of the panel.
- Remove power to the panel by disconnecting the mains and disconnecting the back-up battery by removing the RED (+) connector from the battery.
- Remove the extension antenna plug cap located on the top right of the panel's enclosure.
- Remove the existing PCB antenna cable from the communicator in the following sequence.
  1. Remove the cable from the radio module by inserting a small, flat head screwdriver between the cable and the radio module then gently pry the plug loose.
  2. Use a pair of pliers to grip the head of the cable connector closest to the PCB antenna and pull away from the board. (Note: Any other method for removal of this connector may cause permanent damage to the on-board connector.)
- Locate the 12.7cm (5") antenna cable supplied in the antenna kit.
- Insert the small plug end of the cable into the radio module and push firmly to ensure the cable connector fully engages.
- Remove the brass nut and washer from the other end of the cable and insert the screw thread through the hole in the top right of the panel.
- Replace the washer and nut on the screw thread and tighten it with your fingers.
- Connect the free cable end of the extension antenna onto the threaded brass connector that exits the top right of the panel enclosure. Ensure the connection is "finger" tight.
- Pull down the rubber sleeve on the extension antenna cable over the connection point.
- Reconnect the battery RED (+) connector.
- Power up the unit by reconnecting it at the mains.



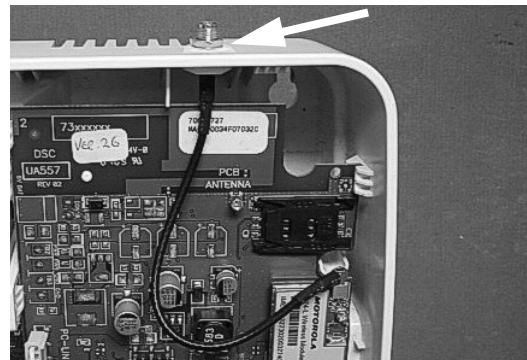
*Plastic plug cap location*



*Removing cable end (1)*



*Removing cable end (2), near PCB antenna*



*Fitted jumper cable and brass nut*



*Fitting cable sleeve*



*Extension antenna connected to the TL265GS/GS2065*

## **GS-15ANTQ PLACEMENT AND INSTALLATION INSTRUCTIONS**

The GS-15ANTQ is an indoor remote antenna that offers the ability to increase the signal strength received by the TL260GS/TL265GS/GS2060/GS2065 module by positioning the antenna in a place where the field strength is stronger.

### **GS-15ANTQ — Antenna Placement Test**

To choose a suitable location for the GS-15ANTQ an antenna placement test should be performed.

Perform an antenna placement test by moving the antenna around to determine the location which exhibits the highest signal strength. The relative signal strength is indicated on the green LEDs. See the TL260GS/TL265GS/GS2060/GS2065 installation manual for more details about how to read the signal strength indication LEDs.

*NOTE: The TL260GS/TL265GS/GS2060/GS2065 does not need to be activated to show the signal strength indication (just powered).*

#### **Notes regarding antenna placement:**

- The antenna must only be used indoors.
- Locate the antenna away from possible sources of electrical interference.
- The antenna must be mounted in a vertical orientation to obtain optimal signal strength.
- If the signal strength is poor try relocating the antenna left or right, up or down by a factor of a few inches.

### **GS-15ANTQ Antenna Installation**

When installing the GS-15ANTQ to the proposed location, please consider the following points:

- Ensure the antenna is mounted vertically.
- Secure the bracket to the wall using suitable screws.
- Use the full length of the antenna cable supplied; do not cut or splice the cable.
- Secure the cable with suitable cable clips at less than 1' spacing.
- If turning the cable through a 90 degree corner then ensure that the bend radius is more than 1".
- Make sure the antenna is in a physically secure location to avoid tampering.
- Any excess cable can be coiled close to the TL260GS/TL265GS/GS2060/GS2065 unit. Do not over coil the cable; ensure the coil diameter is not less than 6".
- For any long cable installation, make sure the antenna cable does not place strain on the equipment.

### **GS-15ANTQ Antenna Placement Confirmation**

Once the GS-15ANTQ antenna is connected to the TL260GS/TL265GS/GS2060/GS2065 module it should be retested in the proposed location to verify the signal strength is acceptable.

## **GS-25/50ANTQ PLACEMENT AND INSTALLATION INSTRUCTIONS**

The GS-25ANTQ and the GS-50ANTQ are high-gain external antennas that offer the ability to increase the signal strength received by the TL260GS/TL265GS/GS2060/GS2065 module by mounting the antenna at a high elevation in an open air outdoor environment.

### **GS-25/50ANTQ — Antenna Placement Test**

To choose a suitable location for the GS-25/50ANTQ an antenna placement test should be performed.

#### **Notes regarding antenna placement:**

Perform an antenna placement test by moving the antenna around to determine the location which exhibits the highest signal strength. The relative signal strength is indicated on the green LEDs. See the TL260GS/TL265GS/GS2060/GS2065 installation manual for more details about how to read the signal strength indication.

*NOTE: The TL260GS/TL265GS/GS2060/GS2065 does not need to be activated to show the signal strength indication (just powered).*

- The antenna is designed for outdoor use but can also be used indoors (at high elevations).
- The antenna must **always** be mounted vertically.
- Locate the antenna as high as possible with a clear view around.
- Locate the antenna away from possible sources of electrical interference.
- If the signal strength is poor try to relocate the antenna left or right, up or down by a factor of a few feet.

### **GS-25/50ANTQ — Antenna Installation**

When installing the GS-25/50ANTQ to the proposed location, please consider the following points:

- Ensure the antenna is mounted vertically.
- The active antenna element (white fiberglass section) should not be placed up against a wall or similar structure.
- Secure the bracket to the wall using suitable screws.
- Clamp the base of the antenna firmly around the heat shrink area. Be careful not to over tighten the bracket causing damage to the antenna base.
- Route the cable down to the intended location of the TL260GS/TL265GS/GS2060/GS2065 unit.
- Use the full length of the antenna cable supplied; do not cut or splice the cable.
- Secure the cable with suitable cable clips at less than 1' spacing.
- If turning the cable through a 90 degree corner then ensure the bend radius is more than 2".
- Make sure the antenna is in a physically secure location to avoid tripping or tampering.

- Excess cable can be coiled close to the TL260GS/TL265GS/GS2060/GS2065 unit. Do not over coil the cable; ensure the coil diameter is not less than 12".
- For any long cable installation, make sure the antenna cable does not place strain on the equipment.



### GS-25/50ANTQ — Antenna Placement Confirmation

Once the external antenna is connected to the TL260GS/TL265GS/GS2060/GS2065 module it should be retested in the proposed location to verify the signal strength is acceptable.

#### 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 or to change this warranty, nor to assume for it any other warranty or liability concerning this product. In no event shall DSC be liable for any direct, indirect or consequential damages, loss of anticipated profits, loss of time or any other losses incurred by the buyer in connection with the purchase, installation or operation or failure of this product.

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.

#### FCC Compliance Statement

**CAUTION:** Changes or modifications not expressly approved by the manufacturer could void your authority to use this equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC

Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:- Re-orient the receiving antenna.

- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

The user may find the following booklet prepared by the FCC useful: 'How to Identify and Resolve Radio/Television Interference Problems'. This booklet is available from the U.S. Government Printing Office, Washington D.C. 20402, Stock # 004-000-00345-4.

**Warning:** To satisfy FCC RF exposure requirements for mobile transmitting devices, a separation distance of 20cm or more must be maintained between the antenna of this device and persons during device operation.

#### Industry Canada Statement

The term 'IC:' before the radio certification number only signifies that Industry Canada technical specifications were met. This manual is applicable to the following TL2260GS/TL265GS/GS2060/GS2065 Cellular Alarm Communicator models:

FCC ID: F5309GS260L and IC: 160A-GS260L

This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

**DSC**

© 2009 Digital Security Controls, Toronto, Canada  
 Technical Support: 1-800-387-3630 (Canada & U.S.) or 905-760-3036  
 www.dsc.com • Printed in China



29007577R002