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GSM-BASED INTERCOM SYSTEM

G-SPEAK ULTRA QUICK GUIDE



1. Important Safety Instructions

- Do not install this product near the DOSS sensor inside the gate motor housing or near the remote receiver.
- Do not install this product near any sensitive electrical components.
- All installation, repair, and service work to this product must be done by a suitably-qualified person.
- Do not in any way modify the components of the system.
- Do not install the equipment in an explosive atmosphere: the presence of flammable gas or fumes is a serious danger to safety.
- Do not leave packing materials (plastic, polystyrene, etc.) within reach of children as such materials are potential sources of danger.
- Dispose of all waste products like packing materials, according to local regulations.
- Centurion Systems (Pty) Ltd does not accept any liability caused by improper use of the product, or for use other than that for which the GSM system was intended.
- This product was designed and built strictly for the use indicated in this documentation. Any other use, not expressly indicated here, could compromise the service life/operation of the product and/or be a source of danger.
- Anything not expressly specified in these instructions is not permitted.

This icon denotes variations and other aspects that should be considered during installation.

This icon indicates tips and other information that could be useful during the installation.

2. Technical Specifications

Supply Voltage Range	11-24V DC
Maximum Current Draw	300mA @ 12V DC
Input/output Current Rating	50mA (Open Collector)
Input Sense Voltage Range	0-24V DC (0-1.6V Low-input State, 5V-24V High-input State)
Network Provider	MTN - South Africa Only
Number of Configurable Input/output Channels	4
Call Buttons on Calling Module	2
Call confirmation at Calling Module	Yes
Model Options	<b>GSM 2G:</b> 850/900/1800/1900MHz (EDGE) <b>GSM 3G:</b> 900/2100MHz (EDGE) 900/2100MHz (UMTS) <b>GSM 3G PENTA:</b> 800/850/900/1900/2100MHz (UMTS) <b>GSM 4G/LTE-CAT1:</b> 900/2100MHz

TABLE 1

3. Product Identification

3.1. G-SPEAK ULTRA

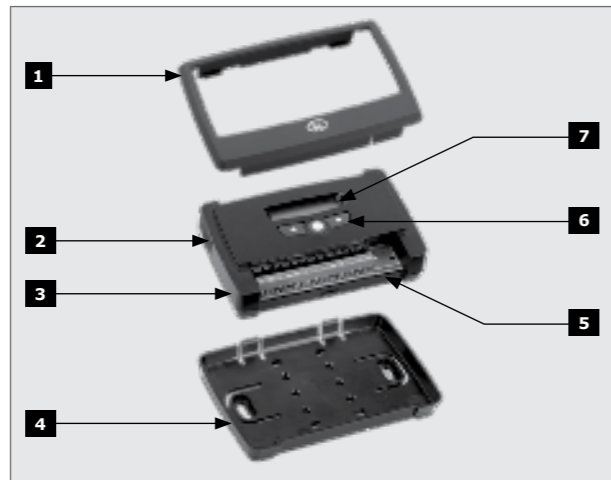
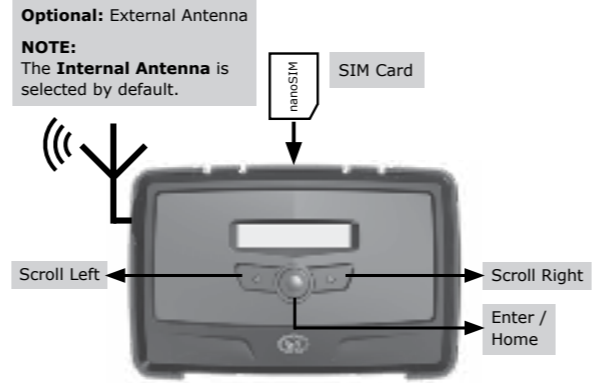


FIGURE 1

- Fascia
- External Antenna Cover
- Main Unit
- Mounting Plate
- Terminal Blocks
- Navigation panel
- LCD Screen

4. Device Layout and Wire Connections



5. LCD Interface

Table 2 below lists the information shown on the different screens found on the LCD interface. The left and right scroll buttons are used to toggle between the different screens.

	<b>Home Screen</b> Network Name or Phone Number Applicable to Incoming / Outgoing SMS or Call. <ul style="list-style-type: none"> <li>Network Signal Strength</li> <li>Connected to Internet</li> <li>Connected to G-WEB</li> <li>Device has Error Condition</li> <li>Incoming SMS</li> <li>Outgoing SMS</li> <li>Incoming Phone Call Events</li> <li>Outgoing Phone Call Events</li> </ul>
	<b>IO Status Screen</b> <ul style="list-style-type: none"> <li>Input: Deactivated ("E" = Input event reached)</li> <li>Input: Activated (pulled to ground)</li> <li>Output: Off</li> <li>Output: On (pulling to ground)</li> </ul>
	<b>Voltage/Firmware/Date &amp; Time Screen</b> <ul style="list-style-type: none"> <li>Supply Voltage</li> <li>Time</li> <li>Firmware Version</li> <li>Date</li> </ul>
	<b>Phone Number Screen</b> Device SIM Phone Number.
	<b>Airtime Balance Screen</b> <ul style="list-style-type: none"> <li>Outgoing Call Credits</li> <li>Outgoing SMS Credits</li> </ul>
	<b>GSM Antenna Selected Screen</b> <ul style="list-style-type: none"> <li>Internal GSM Antenna Selected (default).</li> <li>External GSM Antenna Selected (connect own Antenna to SMA connector).</li> <li>Press Enter to change between Internal and External Antennas.</li> </ul>
	<b>Gate Status Screen</b> <ul style="list-style-type: none"> <li>Gate Closed</li> <li>Gate Opening</li> <li>Gate Open</li> <li>Gate Status Warning</li> </ul>
	<b>SIM Screen</b> <ul style="list-style-type: none"> <li>SIM PIN OK</li> <li>SIM PIN Incorrect</li> <li>SIM Error</li> </ul>

<b>G-SPEAK ULTRA</b> 12 34 5678 9012 345	<b>IMEI Screen</b> Displays the device's IMEI number
<b>1</b> +27812345678 +27832345678	<b>Gate station Voice Numbers</b> Displays the primary and secondary Voice Numbers allocated to their respective buttons
<b>2</b> +27822345678 +27842345678	

TABLE 2

6. Configurations

6.1. Removing the Mounting Plate and Fascia

To access the terminal blocks of the G-SPEAK ULTRA, the back plate and fascia need to be removed. Follow the instructions below to do this.

6.1.1. Removing the Mounting Plate

Gently pull the two clips at the back backward to release the main G-SPEAK ULTRA unit, and lift the unit out of the mounting plate.

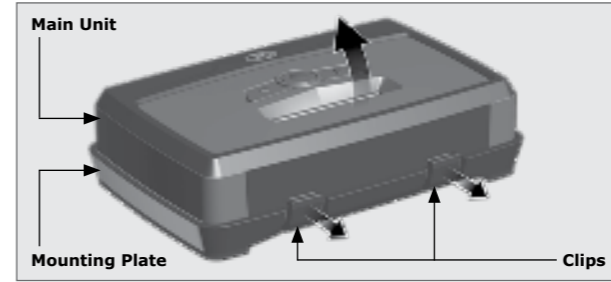


FIGURE 3

6.1.2. Removing the Fascia

The fascia can be removed by inserting the tips of one's fingers into the slots (as shown in Figures 4 and 5), and pulling outward and upward. The fascia should pop off without effort.

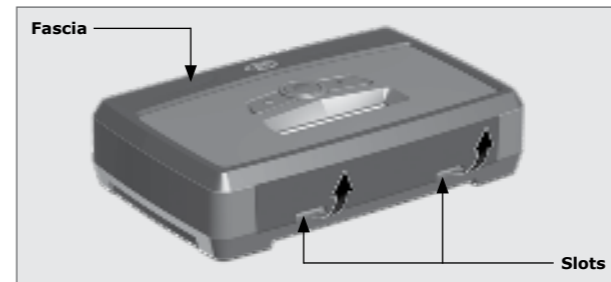


FIGURE 4

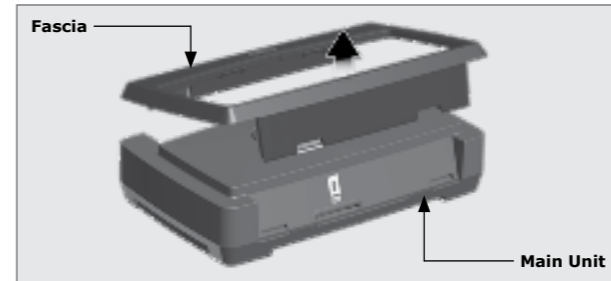


FIGURE 5

Reverse the procedure under Section 6.1 to re-assemble the G-SPEAK ULTRA.

6.2. Calling Module

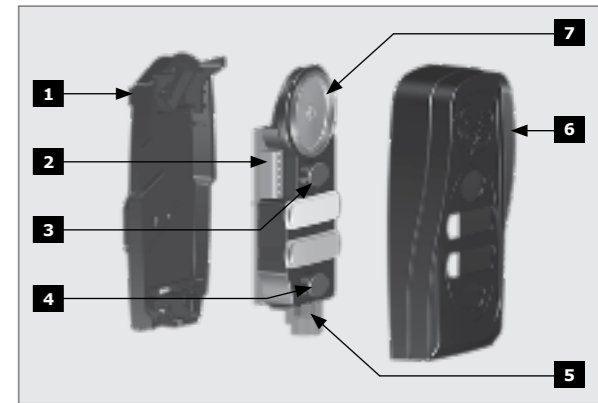


FIGURE 6

- Back Cover / Mounting Panel
- Voice Communication Terminals
- Call Button 1
- Call Button 2
- Microphone
- Front Cover / Fascia
- Speaker

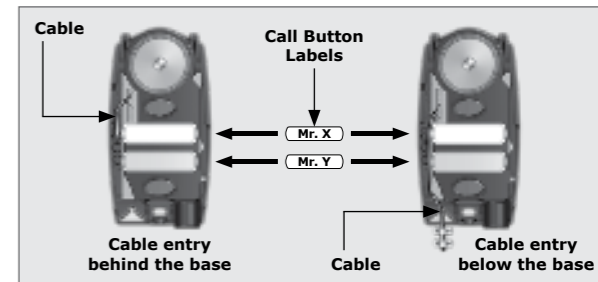


FIGURE 7

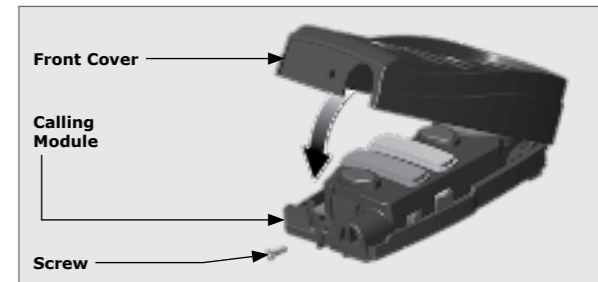


FIGURE 8

GND	IO1	IO2	IO3	IO4	P1	P2	P3	P4	P5	P6	VIN	NEG
-----	-----	-----	-----	-----	----	----	----	----	----	----	-----	-----

GND	Ground
IO1	Input / Output 1 (Default: Output)
IO2	Input / Output 2 (Default: Output)
IO3	Input / Output 3 (Default: Output)
IO4	Input / Output 4 / Gate Status Input (Default: Output)
P1	Data Communication Line
P2	Data Communication Line
P3	Data Communication Line
P4	Data Communication Line
P5	Data Communication Line
P6	Data Communication Line
VIN	Positive of Power Supply 12-24VDC
NEG	Negative of Power Supply

TABLE 3

G-SPEAK ULTRA



**6.3. Wiring Diagrams (Please refer to the online G-ULTRA wiring diagram document for more diagrams)**

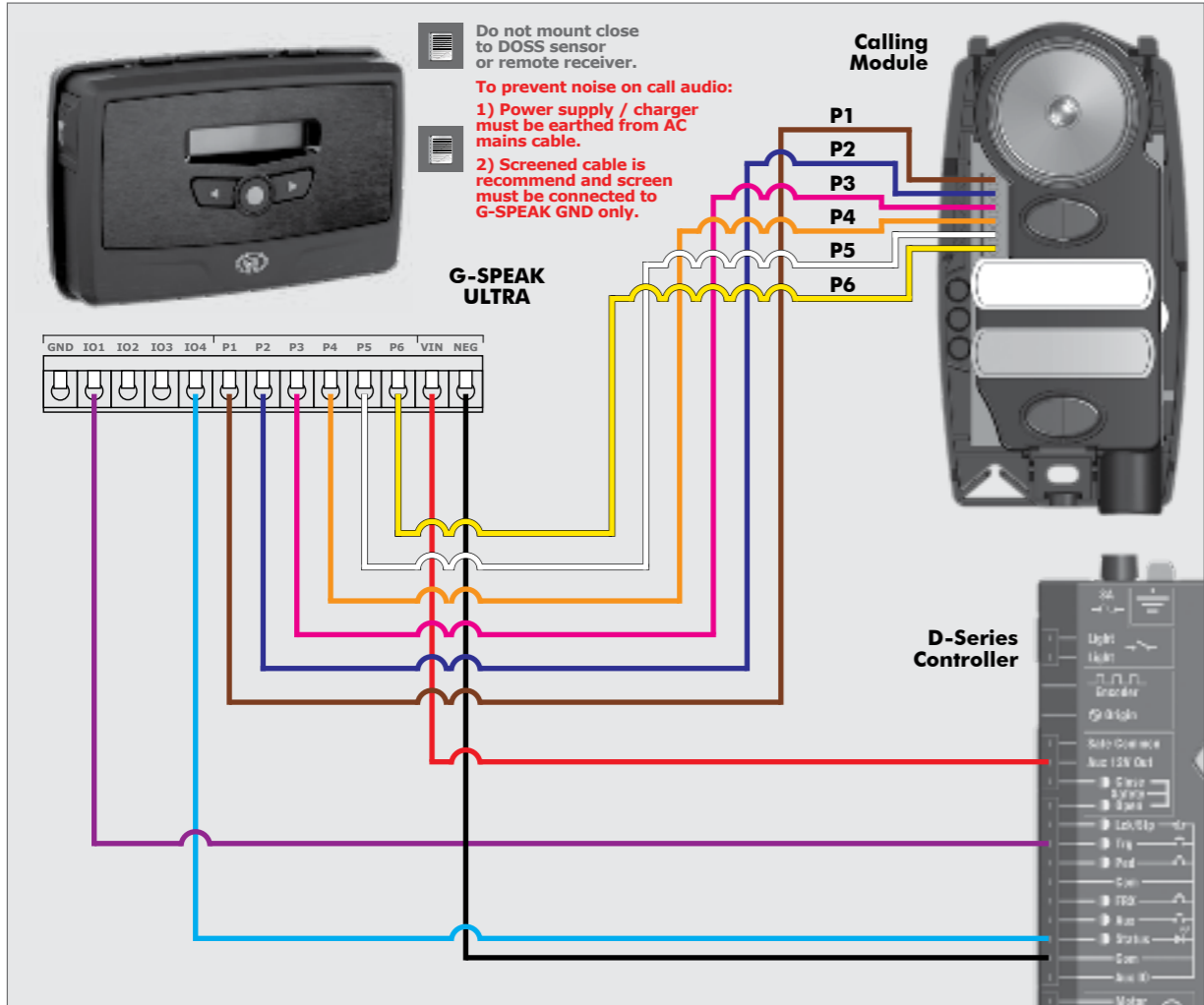


FIGURE 9

Looking for more wiring diagrams and product applications? Scan the QR code on your mobile device to be taken to our wiring diagram library.



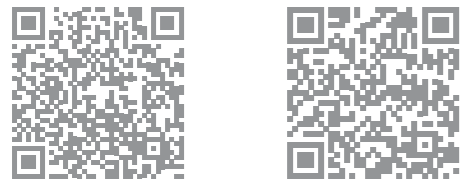
**6.4. Configuration of features**

All features – both basic and advanced – can be easily, and remotely, configured via our G-WEB Mobile Phone App or our G-WEB Online Interface. By simply logging on to the G-WEB App or G-WEB, you can add and delete users, specify text for input notifications and activations, modify device characteristics and many other features. Download the G-WEB mobile App from your Smart Phone by navigating to the App store or go to <http://www.gweb.co.za>

It would be necessary to register if you have not previously done so.

**6.4.1. G-WEB Mobile App (Installers)**

To download the G-WEB Mobile installer app, simply scan the QR code on your mobile device to be taken to the app in the applicable app store for your operating system. The G-WEB app gives you on-the-go access to a multitude of configuration and admin settings.



There is no need to download a third party QR Scanner, as there is a QR Scanner that is built into the G-WEB ULTRA Mobile App.

**6.4.2. G-WEB Online**

Your CENTURION GSM devices can be remotely managed and configured using the G-WEB online interface. Scan the QR code to be taken to G-WEB online.



**6.4.3. G-REMOTE Mobile App (Users)**

Download the G-REMOTE mobile app now for free by scanning the QR code on your mobile device. G-REMOTE lets you remotely control your GSM devices from your phone and receive push notifications for systems that are being monitored.

