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GSM-BASED INTERCOM SYSTEM

G-SPEAK ULTRA
QUICK GUIDE

G-SPEAK ULTRA

1. Important Safety Instructions ⚠

1. Do not install this product near the DOSS sensor inside the gate motor housing or near the remote receiver.
2. Do not install this product near any sensitive electrical components.
3. All installation, repair, and service work to this product must be done by a suitably-qualified person.
4. Do not in any way modify the components of the system.
5. Do not install the equipment in an explosive atmosphere: the presence of flammable gas or fumes is a serious danger to safety.
6. Do not leave packing materials (plastic, polystyrene, etc.) within reach of children as such materials are potential sources of danger.
7. Dispose of all waste products like packing materials, according to local regulations.
8. 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.
9. 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.
10. 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	**GSM 2G:** 850/900/1800/1900MHz (EDGE) **GSM 3G:** 900/2100MHz (EDGE) 900/2100MHz (UMTS) **GSM 3G PENTA:** 800/850/900/1900/2100MHz (UMTS) **GSM 4G/LTE-CAT1:** 900/2100MHz

TABLE 1

3. Product Identification
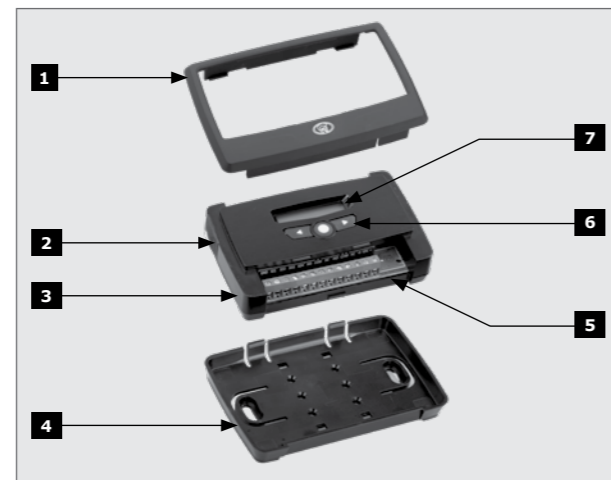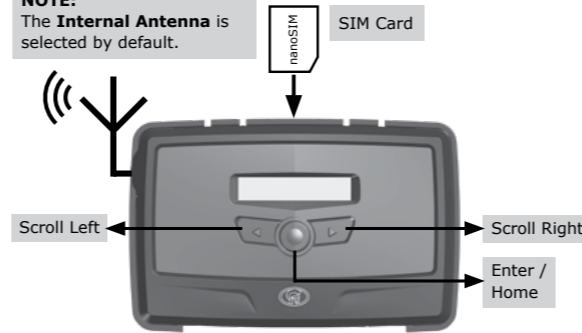## 3.1. G-SPEAK ULTRA

FIGURE 1

1. Fascia
2. External Antenna Cover
3. Main Unit
4. Mounting Plate
5. Terminal Blocks
6. Navigation panel
7. LCD Screen

4. Device Layout and Wire Connections

Optional: External Antenna

NOTE:
The **Internal Antenna** is selected by default.

nanoSIM | SIM Card

Scroll Left ← → Scroll Right

Enter / Home

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.

Home Screen
Network Name or Phone Number
Applicable to Incoming / Outgoing SMS or Call.

📶 Network Signal Strength
🌐 Connected to Internet
(G) Connected to G-WEB
⚠ Device has Error Condition
✉← Incoming SMS
✉→ Outgoing SMS
📞 Incoming Phone Call Events
📞 Outgoing Phone Call Events

IO Status Screen
Input: Deactivated ("E" = Input event reached)
Input: Activated (pulled to ground) ("E" = Input event reached)
Output: Off
Output: On (pulling to ground)

Voltage/Firmware/Date & Time Screen
• Supply Voltage • Time
• Firmware Version • Date

13.4 V   21 : 10
FW:2.6.3.   07 / 07 / 20

Phone Number Screen
Device SIM Phone Number.
+27812345678

Airtime Balance Screen
5 TOKENS Outgoing Call Credits
0 TOKENS Outgoing SMS Credits

GSM Antenna Selected Screen
Internal GSM Antenna Selected (default).
External GSM Antenna Selected (connect own Antenna to SMA connector).
Press Enter to change between Internal and External Antennas.

Gate Status Screen
▢ Gate Closed
▢ Gate Opening
▢ Gate Open
▢ Gate Status Warning

SIM Screen
SIM PIN: 0000 ✓ 1/0
SIM PIN ✓ SIM PIN OK
SIM PIN ✗ SIM PIN Incorrect
✗ SIM Error

G-SPEAK ULTRA
12 34 5678 9012 345

IMEI Screen
Displays the device's IMEI number

❶ +27812345678
   +27832345678

❷ +27822345678
   +27842345678

Gate station Voice Numbers
Displays the primary and secondary Voice Numbers allocated to their respective buttons

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.
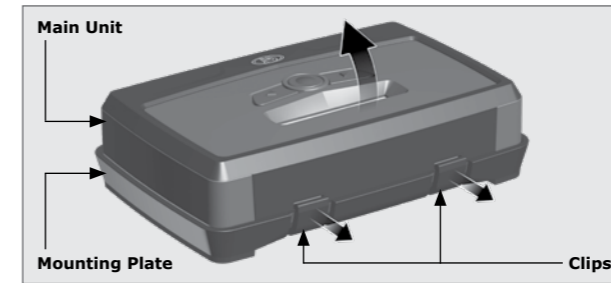
Main Unit

Mounting Plate | Clips

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.
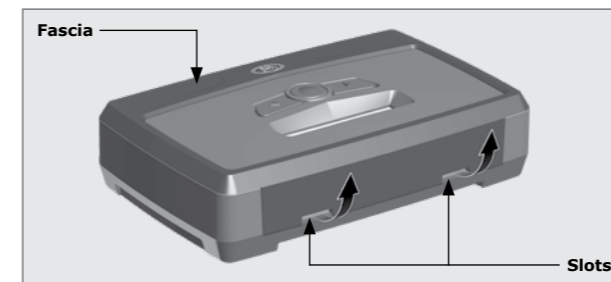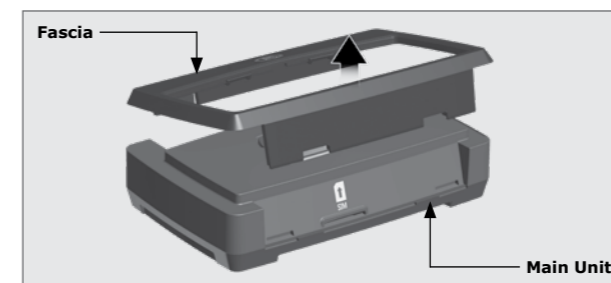
Fascia

Slots

FIGURE 4

Fascia

Main Unit

FIGURE 5

📋 Reverse the procedure under Section 6.1 to re-assemble the G-SPEAK ULTRA.
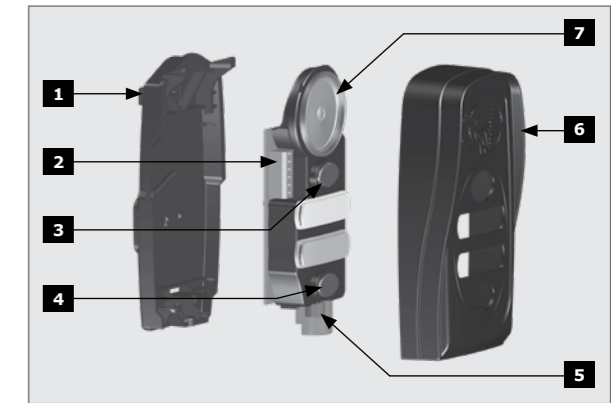
6.2. Calling Module

FIGURE 6

1. Back Cover / Mounting Panel
2. Voice Communication Terminals
3. Call Button 1
4. Call Button 2
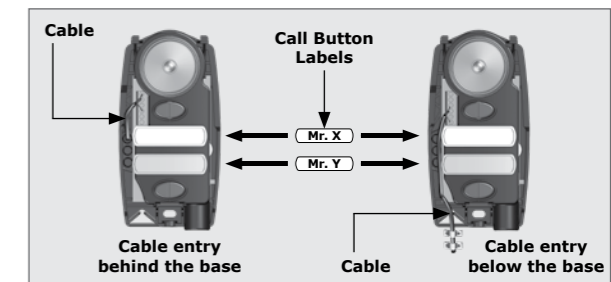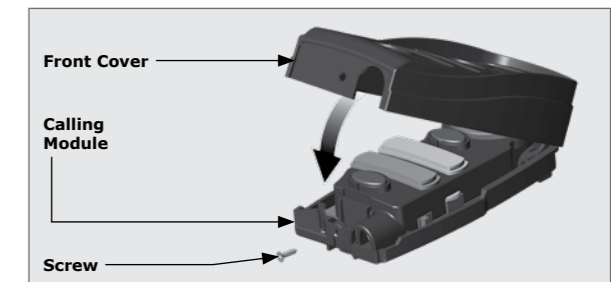5. Microphone
6. Front Cover / Fascia
7. Speaker

Cable | Call Button Labels
Mr. X
Mr. Y
Cable entry behind the base | Cable | Cable entry below the base

FIGURE 7

Front Cover
Calling Module
Screw

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

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

Do not mount close to DOSS sensor or remote receiver.

To prevent noise on call audio:
1) Power supply / charger must be earthed from AC mains cable.
2) Screened cable is recommend and screen must be connected to G-SPEAK GND only.

Calling Module

P1
P2
P3
P4
P5
P6

G-SPEAK ULTRA

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

D-Series Controller

3A
Light
Light
Encoder
Origin
Safe Common
Aux 12V Out
Close
Safety
Open
Lck/Stp
Trg
Ped
Com
FRX
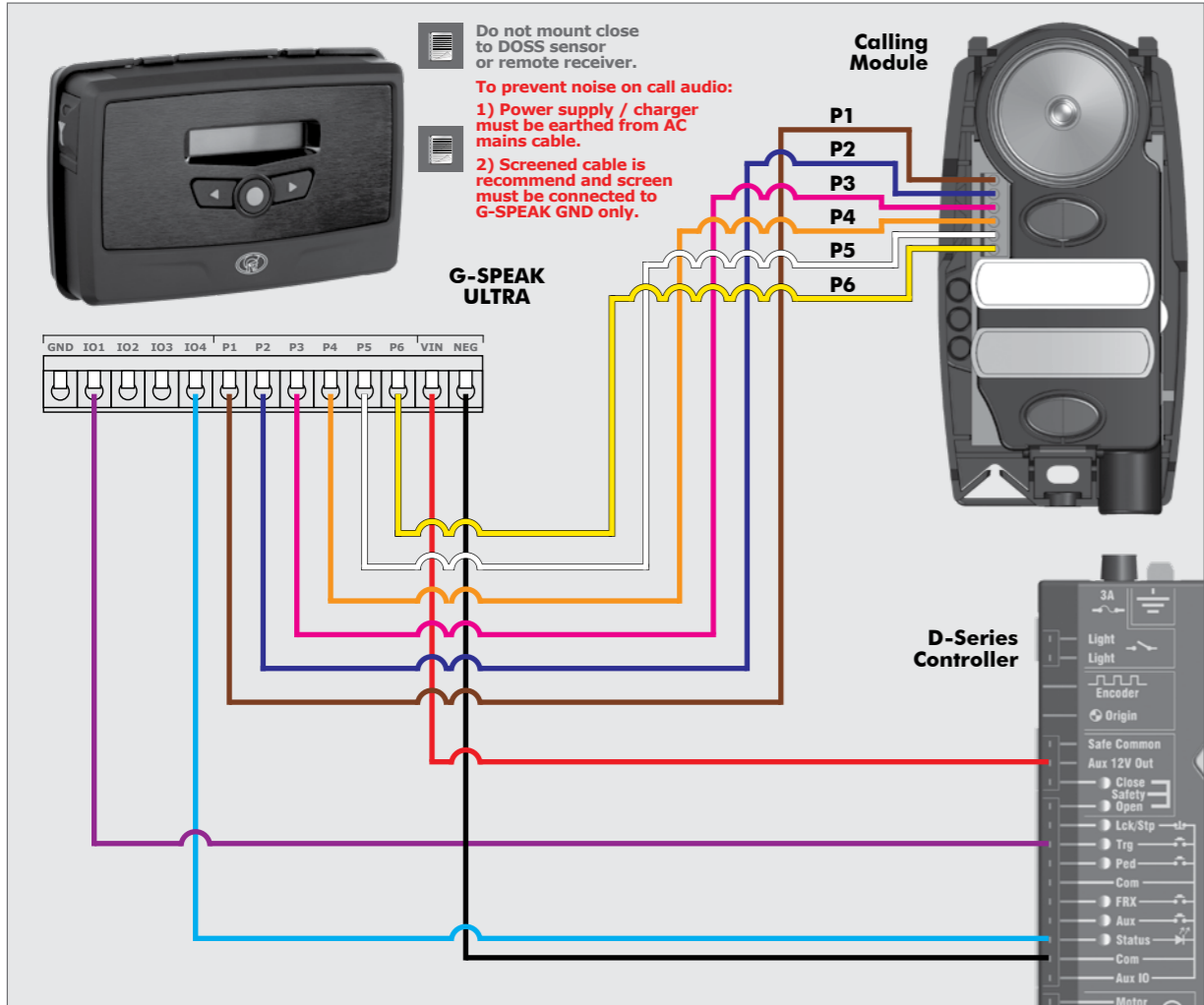Aux
Status
Com
Aux IO
Motor

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.

Get it on Google play

Download on the App Store

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.

Get it on Google play

Download on the App Store

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.