METAL GATE STATION INSTALLATION MANUAL

Centurion Systems (Pty) Ltd
www.centsys.com

Company Profile

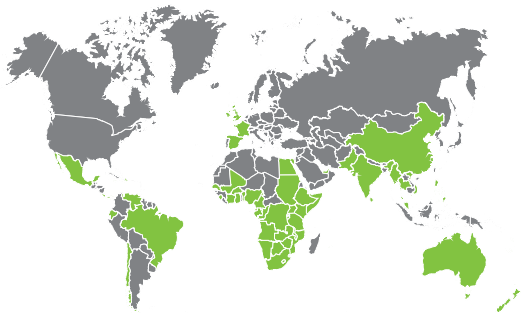1986   1990   1995   1999   Today

In-house R&D development team

Manufactures to international quality standard ISO 9001:2015

After-sales multi-language Technical Support

100% testing of products

Sales and technical support to Africa, Europe, Asia, the Americas, Australia and the Pacific

Call Centre Operating Times

Monday to Friday
08h00 to 17h00 GMT+2,

Saturdays
08h00 to 14h00 GMT+2

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Contents

Icons used in this manual

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

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

This icon indicates warning, caution or attention! Please take special note of critical aspects that MUST be adhered to in order to prevent injury.

1. INTRODUCTION

1.1. Important Safety Information

> ⚠️ **ATTENTION!**
>
> **To ensure the safety of people and possessions, it is important that you read all of the following instructions.**
>
> **Incorrect installation or incorrect use of the product could cause serious harm.**
>
> **Before handover to the end-user, the installer must ensure that the whole system is correctly installed and operates safely.**

Warnings for the Installer

CAREFULLY READ AND FOLLOW ALL INSTRUCTIONS before beginning to install the product.

- Do not in any way modify the components

- Do not leave packing materials (plastic, polystyrene, etc.) within reach of children as such materials are potential sources of danger

- Neither Centurion Systems (Pty) Ltd, nor its subsidiaries, accepts any liability caused by improper use of the product, or for use other than that for which the 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

2. SPECIFICATIONS

2.1. Physical Dimensions

FIGURE 1. METAL GATE STATION PHYSICAL DIMENSIONS

2.2. Technical Specifications

	METAL GATE STATION[1]
Operating voltage[2]	7.4V DC as supplied by the **G-SPEAK ULTRA**[3]
Current draw	11mA
Speech volume	Adjustable via **G-WEB**
Wiring	6 wire connection (power, audio and mic)
Ring tone	Electronic when button is depressed
Call confirmation	Yes
Call buttons	1, 2 or 4 (illuminated with labels)
Operating temperature	-20°C to +50°C
Humidity	0 - 90% non-condensing
Degree of protection	IP54[4]
Dimensions	97mm wide x 40mm deep x 178mm high

TABLE 1

1. Requires a **G-SPEAK ULTRA** device, as the Gate Station cannot be used on its own.
2. If the 12V DC gate motor supply dips when the motor starts up and the intercom is being used at the same time, the speech quality might be affected.
3. The Gate Station must only be powered via a **G-SPEAK ULTRA** Device.
4. A Gooseneck backing plate is required when mounting onto a Gooseneck, to maintain IP rating.

⚠ **Please note that only the one- and two-button models of the Metal Gate Station are compatible with 2G, 3G, and 4G wireless technology.**
The four-button Metal Gate Station currently only allows for 4G compatibility.
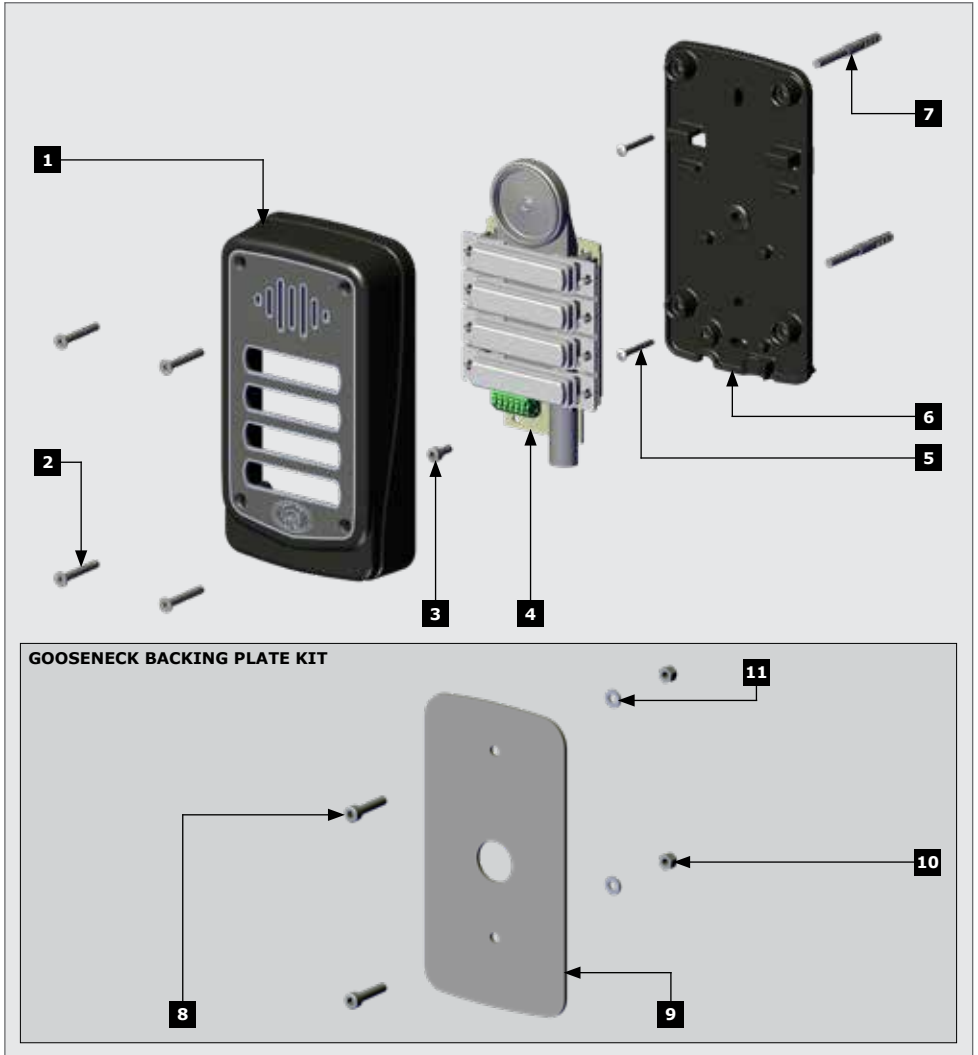
3. PRODUCT IDENTIFICATION

FIGURE 2. PRODUCT IDENTIFICATION

1. **Metal Gate Station** Cover
2. Hex Socket Countersunk Screw
3. Hex Socket Cap Screw
4. **Metal Gate Station** PCB
5. Self Tapping Screw
6. **Metal Gate Station** Rear Housing
7. Wall Plug
8. M5x25 Cap Screw
9. Gooseneck Backing Plate
10. M5 Nyloc Nut
11. M5 Washer

4. PHYSICAL INSTALLATION

4.1. Mounting the Metal Gate Station onto a Wall

⚠ **The following steps should only be performed once the G-SPEAK ULTRA has been successfully wired into your operator.**

1. Remove the four Hex Socket Countersunk Screws from the **Metal Gate Station** cover.

FIGURE 3

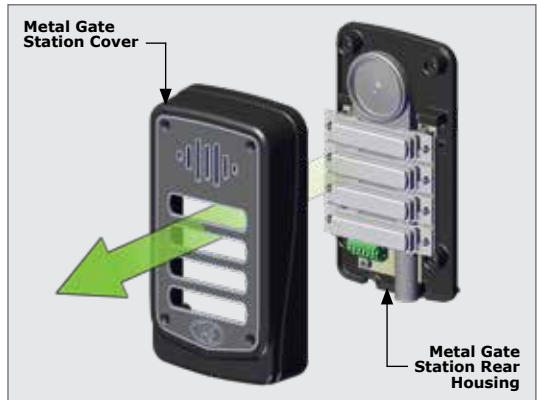2. Remove the **Metal Gate Station** Cover away from the **Metal Gate Station** Rear Housing.

FIGURE 4

3. Remove the Hex Socket Cap Screw from the bottom of the **Metal Gate Station** PCB.
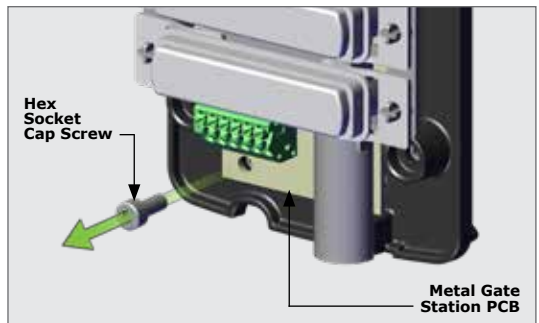
FIGURE 5

FIGURE 6

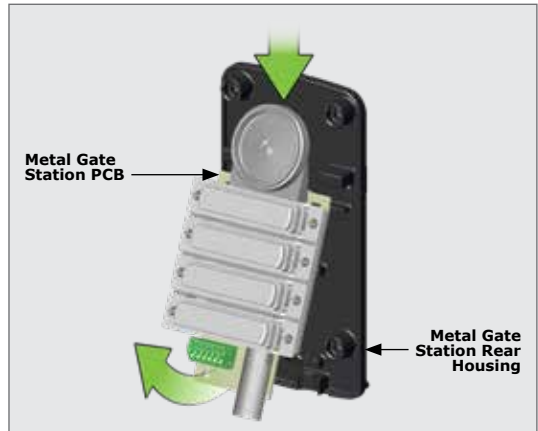4. Remove the **Metal Gate Station** PCB and internals by simultaneosuly pushing the top down while rotating the bottom towards you.

5. Once the **Metal Gate Station** PCB has been removed, there will be two points which you can use to run your cables through, to wire the **Metal Gate Station** to your **G-SPEAK ULTRA**.

> Ensure that the cables you have pulled through are long enough and that there is a tight seal around your cables. If not, use an industrial grade silicone.
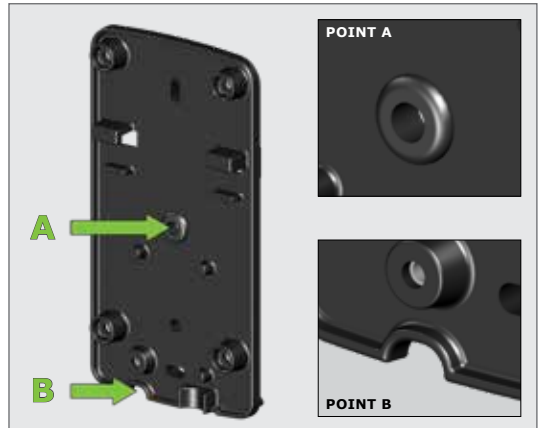

FIGURE 7

6. Place the **Metal Gate Station** Rear Housing flat on the surface where you would like to attach the **Metal Gate Station**.

7. Using either points C and D or points C and E, mark and centre punch the hole positions for drilling.

8. Drill two 6mm holes.

> **Remove the Metal Gate Station Rear Housing away from the surface before drilling.**
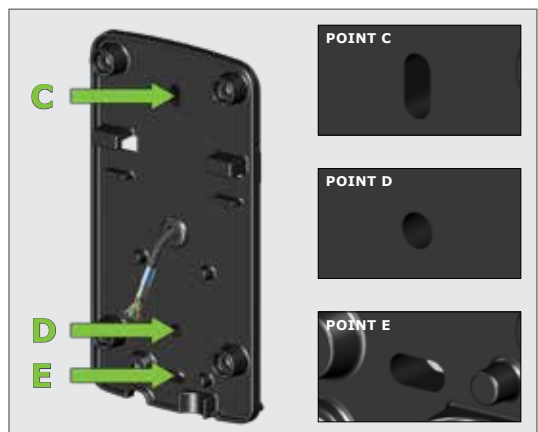

FIGURE 8

9. Insert two Wall Plugs into the
    holes that you have drilled and
    fasten the **Metal Gate Station**
    Rear Housing to your flat surface
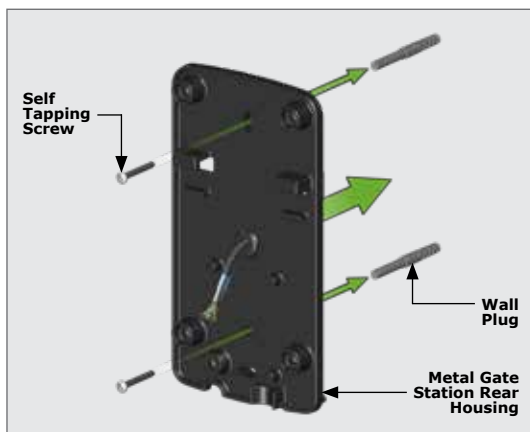   using two Self Tapping Screws.

FIGURE 9

10. Wire your cables to the Wiring
    Block on the **Metal Gate Station**
    PCB and fit it back into the **Metal
    Gate Station** Rear Housing
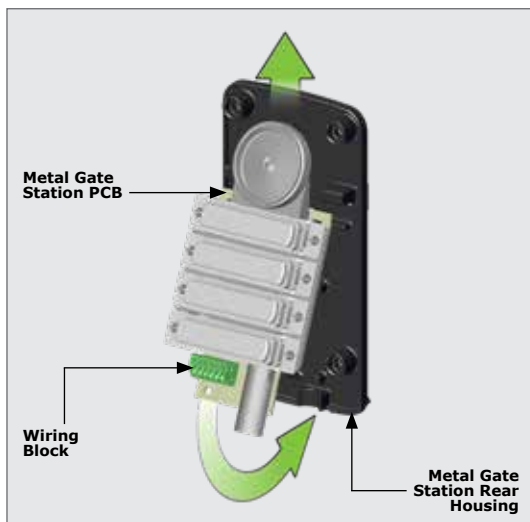   using the inverse movements of
    step 4.

FIGURE 10

11. Fasten the **Metal Gate Station**
    PCB to the **Metal Gate Station**
    Rear Housing by replacing the
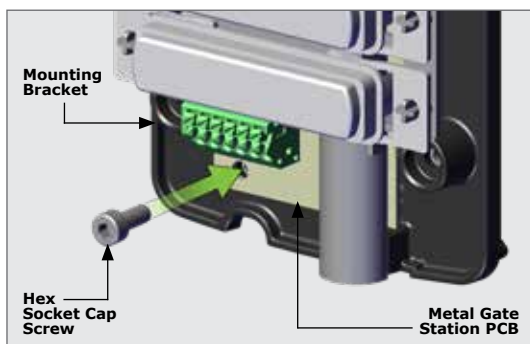   Hex Socket Cap Screw at the
    bottom.

FIGURE 11

12. Remove a button cover off a **Metal Gate Station** button to expose the paper tag inside.

13. Write the relevant information on the paper tag and place it back inside the button cover.

14. Place the button cover back onto the **Metal Gate Station** button.

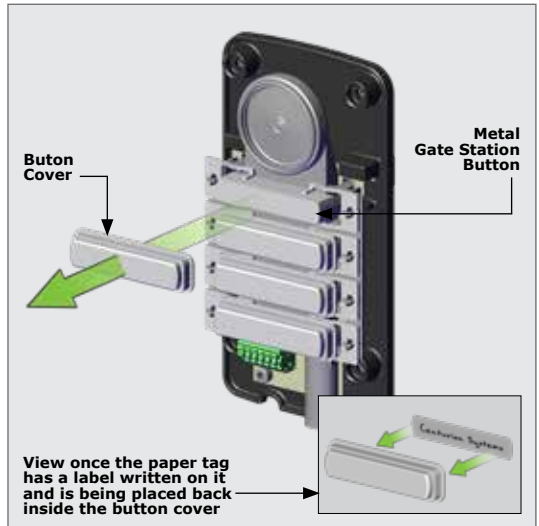15. Repeat steps 12 to 14 on the rest of the buttons as necessary.

FIGURE 12

16. Place the **Metal Gate Station** Cover back onto the **Metal Gate Station** Rear Housing and ensure that all components are propely clipped together.
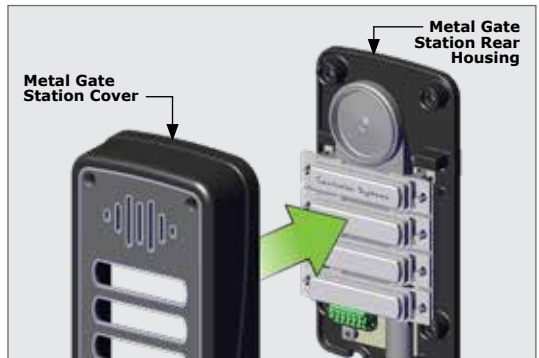

FIGURE 13

17. Fasten the four Hex Socket Countersunk Screws on the **Metal Gate Station** cover to attach it onto the **Metal Gate Station** Rear Housing.
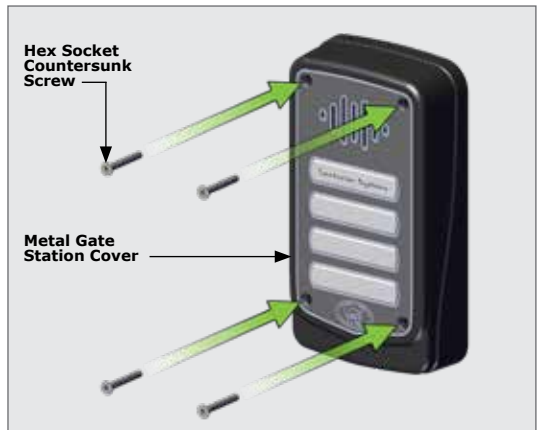

FIGURE 14

4.2. Mounting the Metal Gate Station onto a Gooseneck

⚠ **The following steps should only be performed once the G-SPEAK ULTRA has been successfully wired into your operator.**

Step 1 - 4
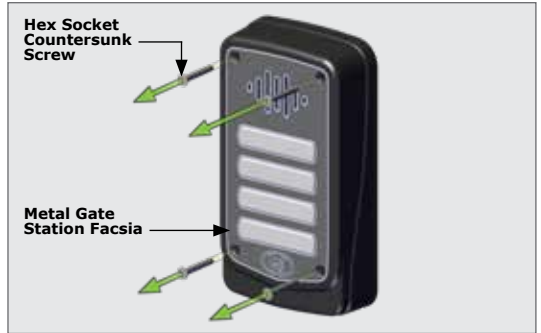Refer to page 7 and 8
(follow step 1- 4).

FIGURE 15

5. Run your cables from your Gooseneck through the Gooseneck Backing Plate and **Metal Gate Station** Rear Housing, to wire the **Metal Gate Station** to your **G-SPEAK ULTRA**.

> Ensure that the cables you have pulled through are long enough and that there is a tight seal around your cables on the **Metal Gate Station** Rear Housing. If not, use an industrial grade silicone.
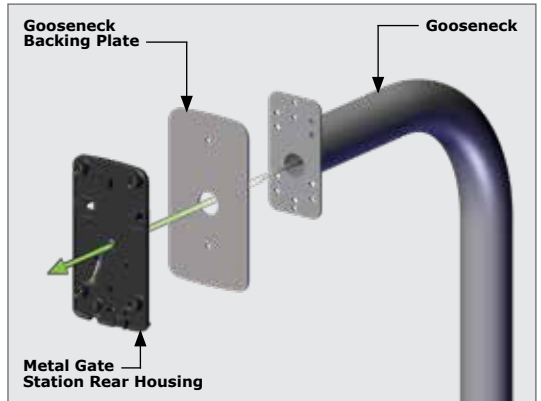
FIGURE 16

6. Fasten the **Metal Gate Station** Rear Housing onto the Gooseneck Backing Plate and Gooseneck using two M5x25 Cap Screws.

Step 7 - 14
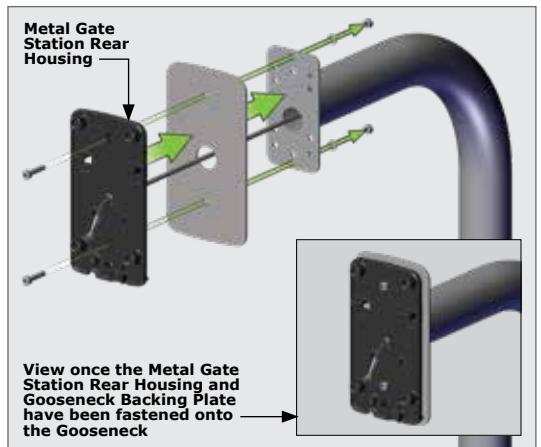Refer to page 9 and 10
(follow step 10 - 17).

FIGURE 17

5. COMPLETING THE INSTALLATION

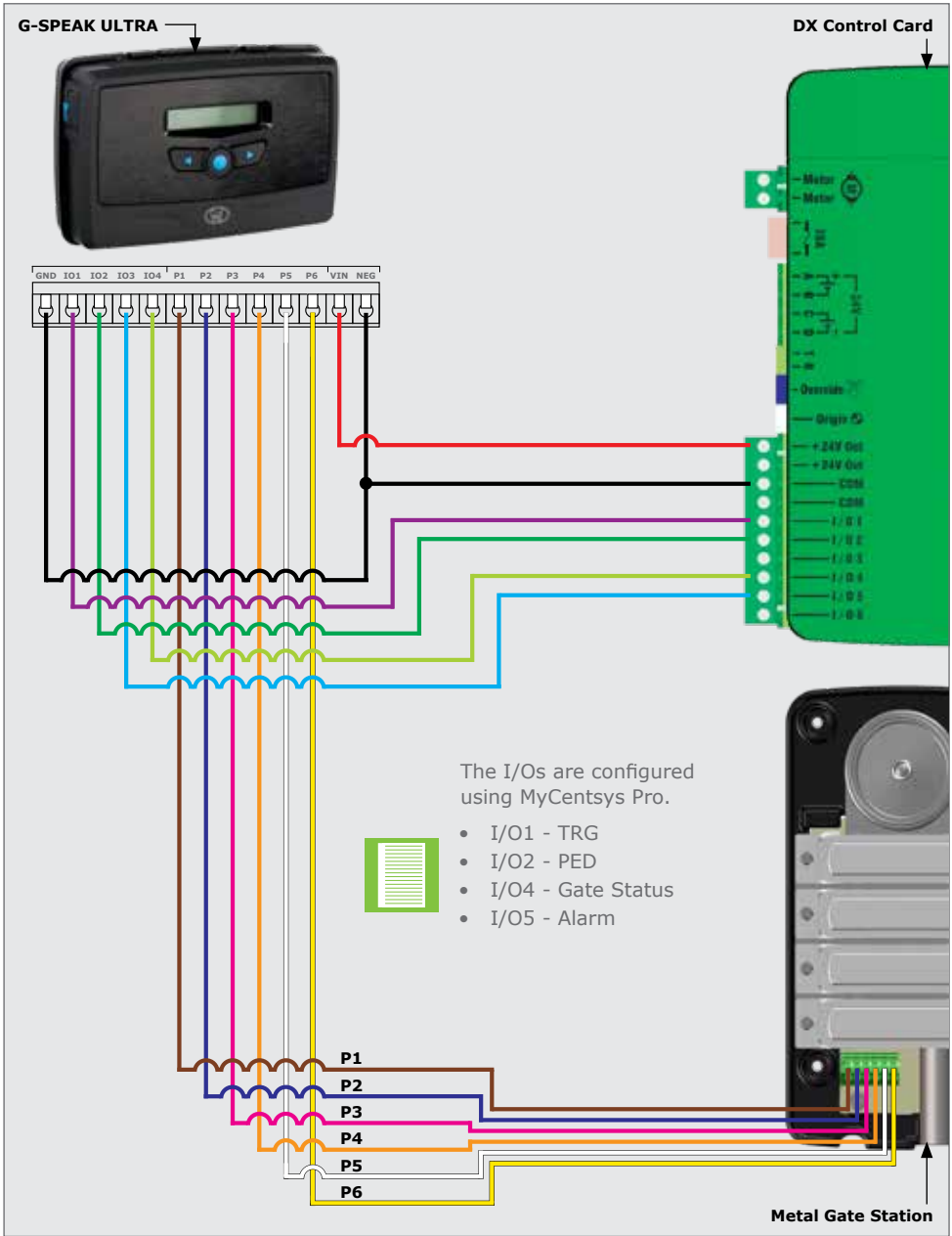## 5.1. Wiring a G-SPEAK ULTRA to the Metal Gate Station

5.1.1. DX Controller

The I/Os are configured using MyCentsys Pro.

- I/O1 - TRG
- I/O2 - PED
- I/O4 - Gate Status
- I/O5 - Alarm

FIGURE 18

5.1.2. D5ES Controller

The I/Os are configured using MyCentsys Pro.

- I1 - TRG
- I2 - PED
- I/O4 - Gate Status
- I/O5 - Alarm
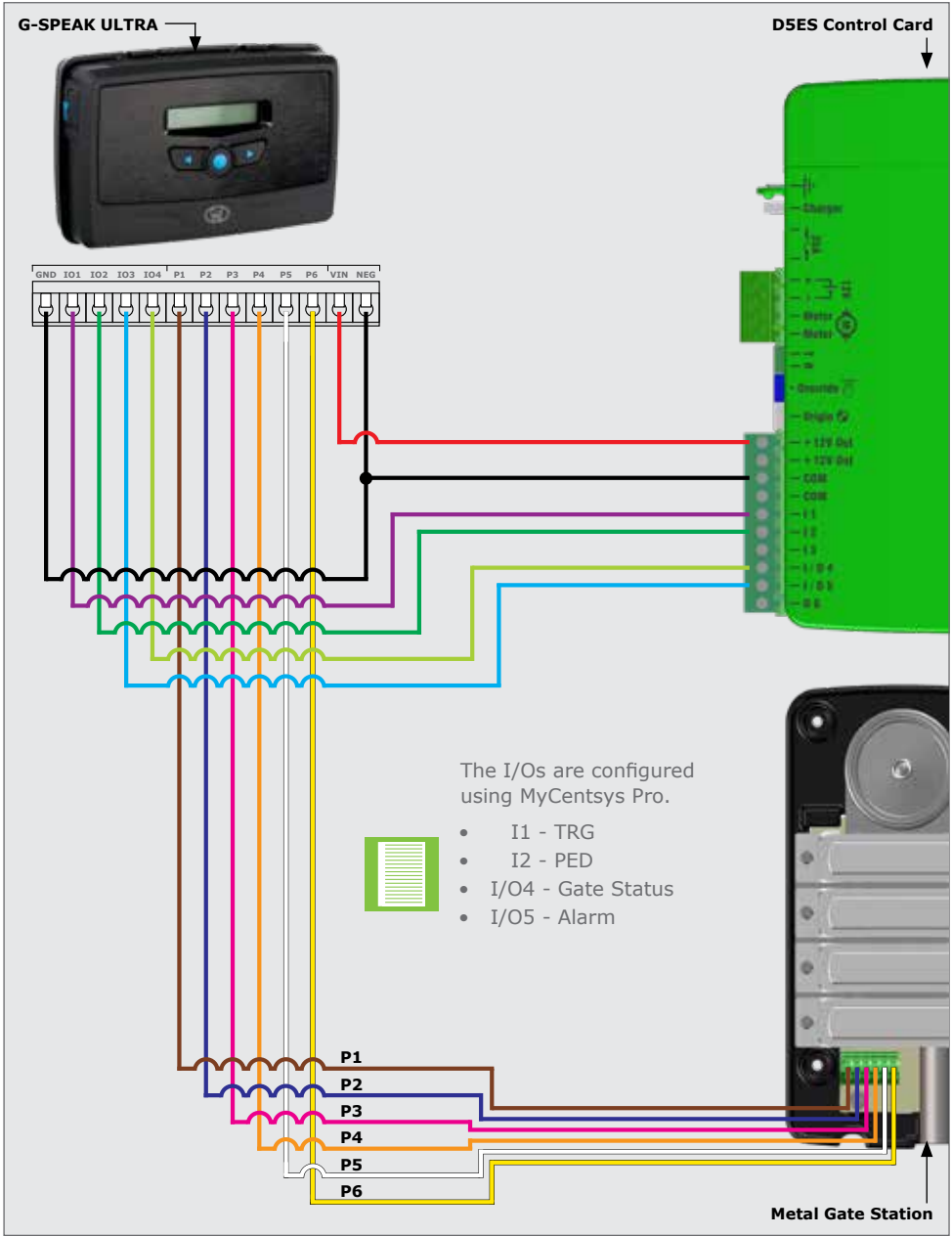
FIGURE 19

5.1.3. D-Series Controller

FIGURE 20

5.1.4. VX SMART Controller

G-SPEAK ULTRA

VX SMART Control Card

Do not mount close to the sensor wiring or remote receiver.

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

The I/Os are configured using MyCentsys Pro.

- I1 - TRG
- I2 - PED
- I/O4 - Gate Status
- I/O5 - Alarm

P1
P2
P3
P4
P5
P6

Metal Gate Station
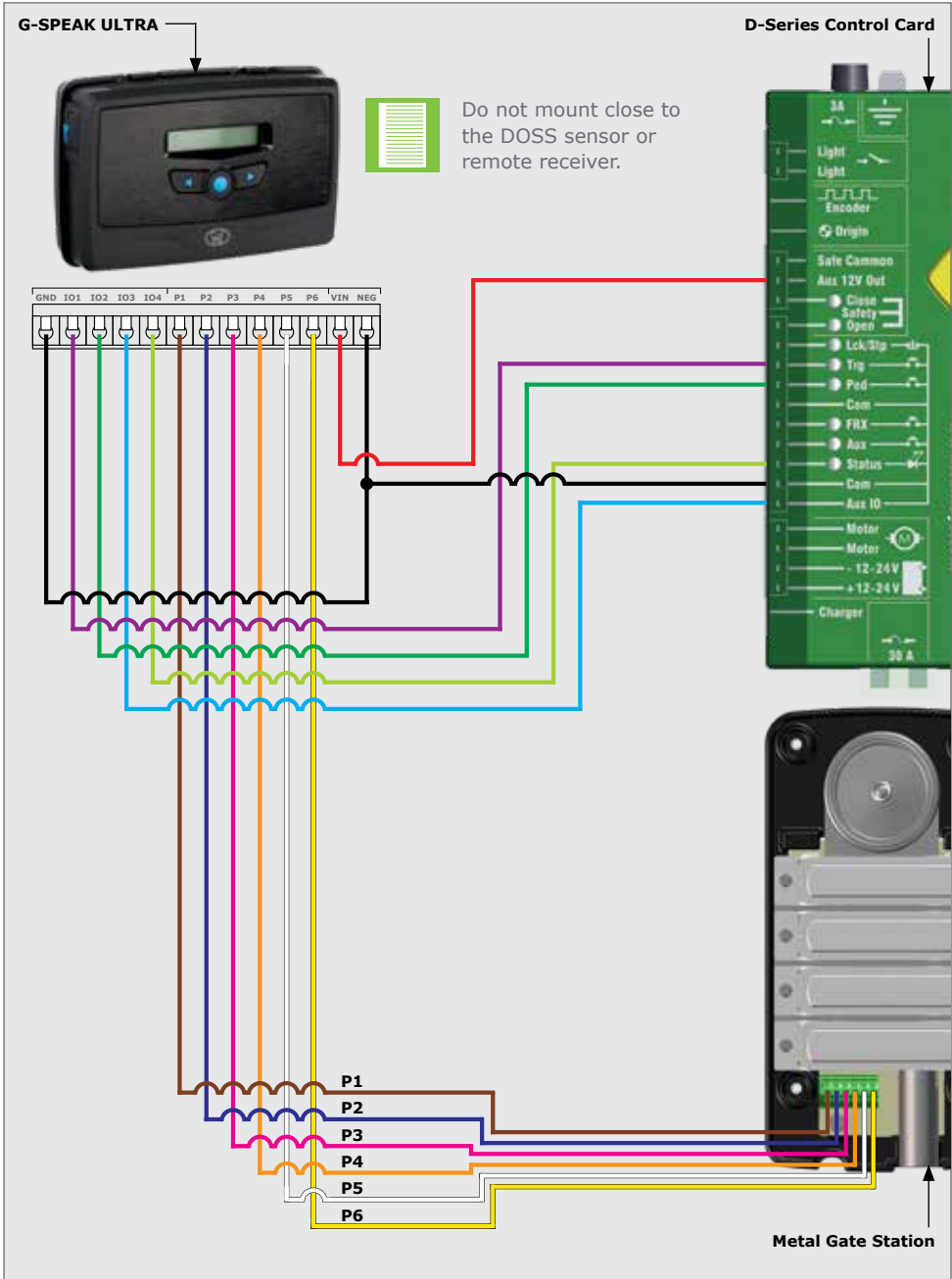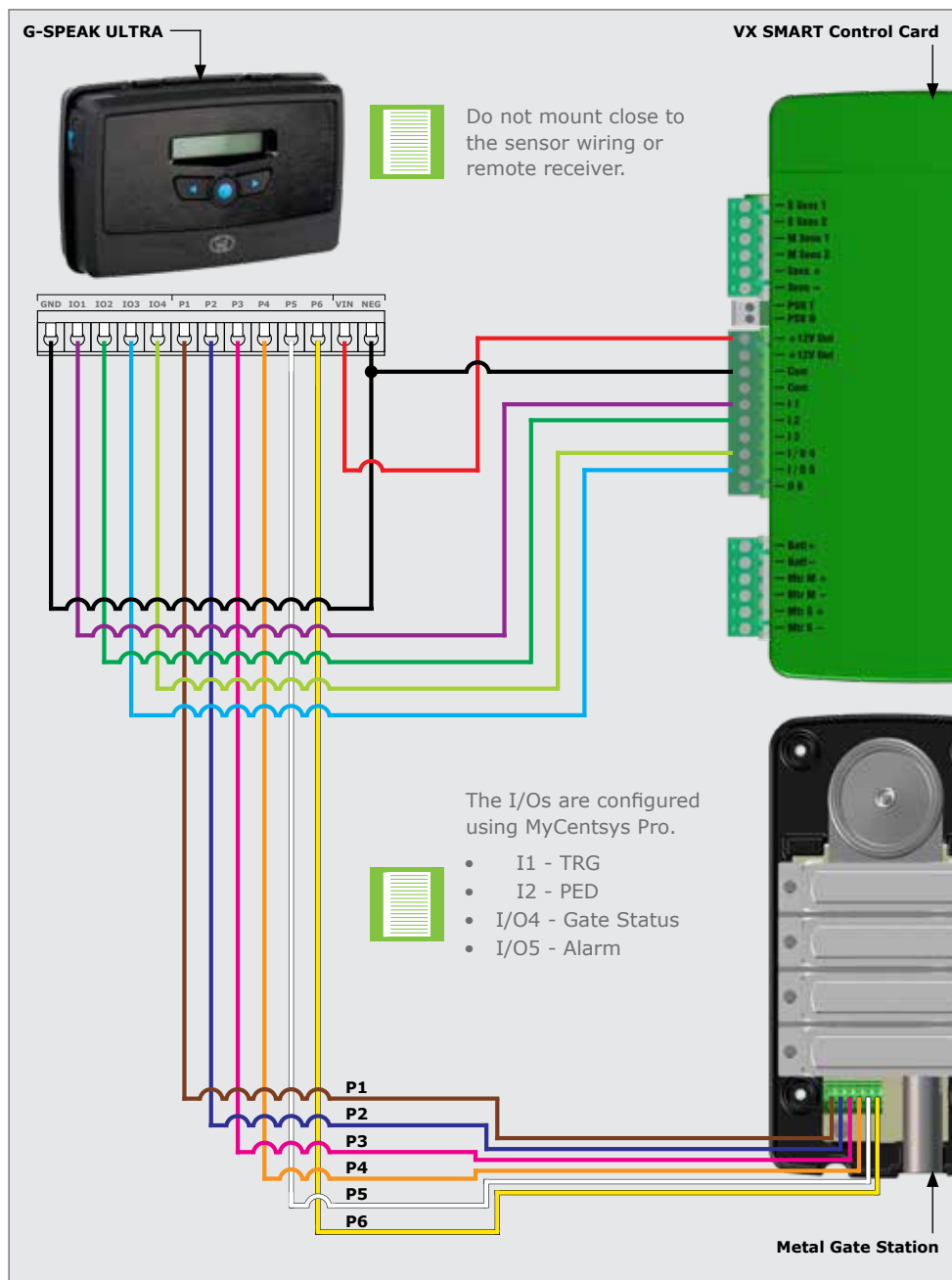
FIGURE 21

6. WARRANTY INFORMATION

You can register your product(s) online at www.centsys.com, which will assist you in keeping a record of your date of purchase or installation, serial numbers, etc.

All of our products are manufactured with extreme care, thoroughly inspected and tested.

The goods supplied by us shall be subject to the provisions of sections 55 to 57 of the Consumer Protection Act (68/2008) except where the provisions of the warranty contained in our product documentation are more favourable to the purchaser.
Subject to the warranty contained in our product documentation, if applicable, our products are warranted for a period of twenty-four months after delivery.
However, it is expressly noted that batteries carry a six month warranty due to the nature of these products being such that they are subject to possible misuse. Please note that warranties will be honoured on a carry-in basis; in other words, the product in question must be taken in to one of our branches, or to the authorised reseller that the product was purchased from, for assessment and, if necessary, repair. For equipment not of our manufacture, the warranty as supplied by the original manufacturer will apply if such warranty is more favourable to the purchaser than the relevant provisions of the Consumer Protection Act (Act 68/2008 of South Africa), or any other applicable law as so required in different countries in which the product was sold.
Such warranty is valid only once full payment has been received for such goods.

Australian customers:

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure

Any warranty may be voidable on any equipment which:

1. Has not been installed in accordance with the installation instructions provided.

2. Has been subject to misuse or which has been used for any purpose other than that designed for by the manufacturers.

3. Has damage caused as a result of handling during transit, atmospheric conditions (including lightning), corrosion of metal parts, insect infestation, power surges or other forces outside of the control of the manufacturer.

4. Has been repaired by any workshop and / or person NOT previously authorised by the manufacturer.

5. Has been repaired with components not previously tested, passed or authorised by Centurion Systems (Pty) Ltd, South Africa or one of its subsidiary companies.

Notes

Notes

Notes

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