



GATE COMMAND UNIT

INSTALLATION MANUAL



Raising Standards
Safety Assured



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OVERVIEW

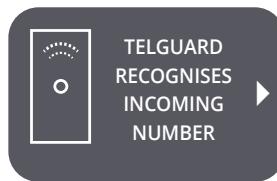
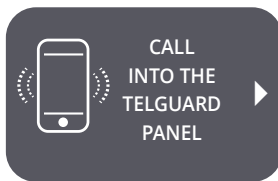
OVERVIEW

The Gate Command Unit is an entry system suitable for any door, gate or barrier requiring communication and control over access. It can be used in any environment, internally, or externally, including Domestic, Commercial and Public Sectors.

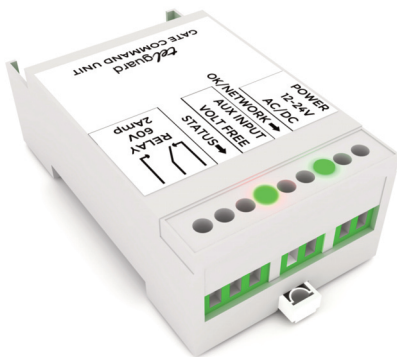
The Gate Command Unit can allow you to remotely open, latch and close powered entrances using your mobile/landline phone.

HOW IT WORKS

Authorised Dial In



PRODUCT DESCRIPTION AND DIMENSIONS



Gate Command Unit

PRODUCT CODE:
4TGCU

Dimensions
H 90 x W 52 x D 32

NUMBER OF USERS	-
NUMBER OF CALL BUTTONS	-
BACKLIT KEYPAD	-
INSTALLER PROGRAMMABLE	✓
PROGRAMMED BY SMS	✓
PROGRAMMED BY APP	✓
SMS ALERTS	-
RELAY OUTPUTS	1
AUX INPUT	1
DOWNLOADABLE ACTIVITY LOG	✓
CALL FORWARDING UP TO A FURTHER 7 NUMBERS	-
ACCESS CODES	-
A & B BUTTONS	-
SUB DIRECTORIES FOR MULTI-USER	-
CONTROL HOUSED SEPERATELY	-
INTERNAL TIME CLOCK WITH 9 PROFILES	✓
PROGRAMMABLE BACKLIT LCD	-
TIMED TRADE BUTTON	-
AUTHORISED DIAL TO OPEN	900
OPTIONS: ANTHRACITE (Faceplate)	-
BLACK (Fascia and Back box)	-
STAINLESS STEEL (Fascia and Back box)	-
FLUSH MOUNT (Stainless Steel only)	-

INSTALLATION AND CONNECTION

SPECIAL TOOLS AND MATERIALS NEEDED

1. 4G Analyser.

(Please note: the Gate Command Unit does not come with a weatherproof enclosure and must be installed somewhere safe and dry)

WHAT'S INSIDE THE BOX

1. Telguard Gate Command Unit.
2. 4G PCB Antenna.
3. Telguard Telecom SIM Card Pack *(optional and subject to activation order)*.

POSITIONING AND MOUNTING OF THE GATE COMMAND UNIT

The positioning of the Gate Command Unit should maximise the safest and best operational performance and convenience within the Gate Control Box. It has been designed for DIN Rail Mounting or wall mounting *(indoor only)*.

Network and Signal strength measured with a 4G Analyser *(please see detailed instructions provided with the Analyser)*.

SITING OF THE ANTENNA

The Gate Command is supplied with a 4G PCB Antenna with a 160mm cable. Do not install on direct metal as this will severely reduce signal strength. A gap of 20mm between 4G PCB Antenna and metal will be ok.

An external 4G PUK Antenna can be supplied if required. This antenna should be installed in the most suitable position so that:

1. As high as possible and obtaining the maximum signal strength, checked by a 4G Analyser *(please see detailed instructions provided with the Analyser)*.
2. Further than 200mm from a human body.
3. Minimising risks of vandalism.

POWER REQUIREMENTS

The Gate Command Unit works from 12 to 24V AC/DC (Max 42V DC) .

Current consumption at 12V DC is 14mA *(on air)*.

Current consumption at 24V DC is 8mA *(on air)*.

Solar Mode ~ Lower Power

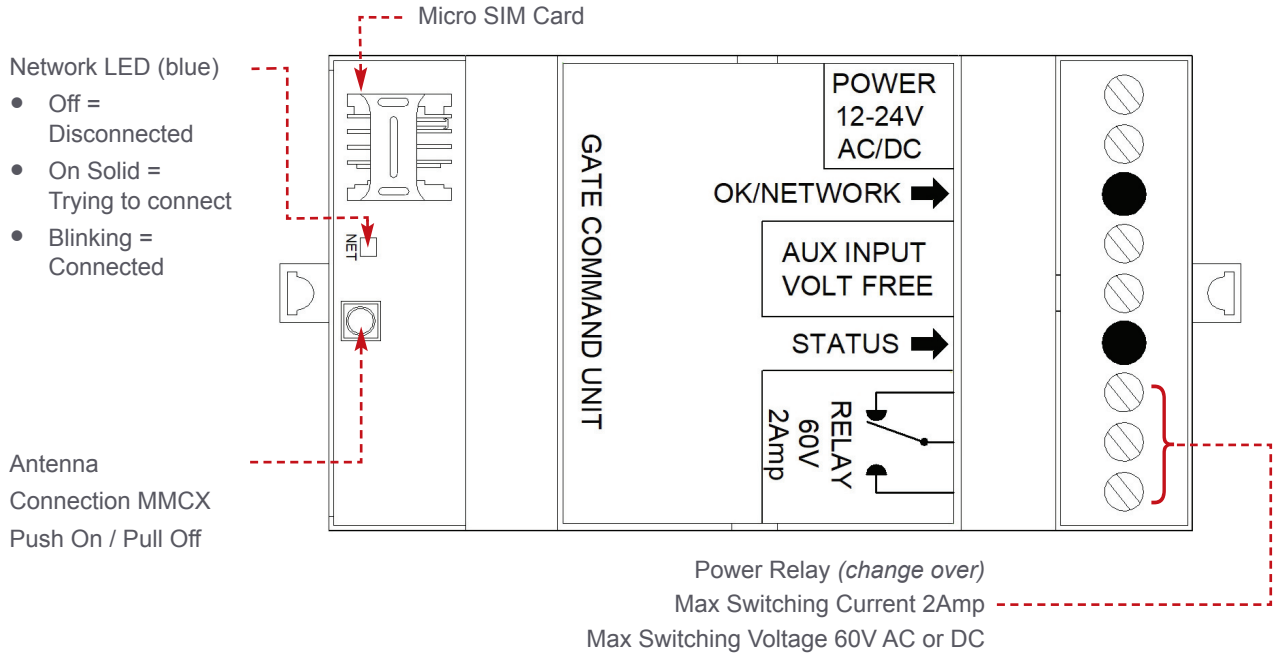
Solar mode is configurable via Hy-Can Link and allows the Gate Command Unit to run on lower power.

Average current consumption at 12V DC is 6mA *(on air)*.

Average current consumption at 24V DC is 3.3mA *(on air)*.

APPLICATION AND CONNECTION

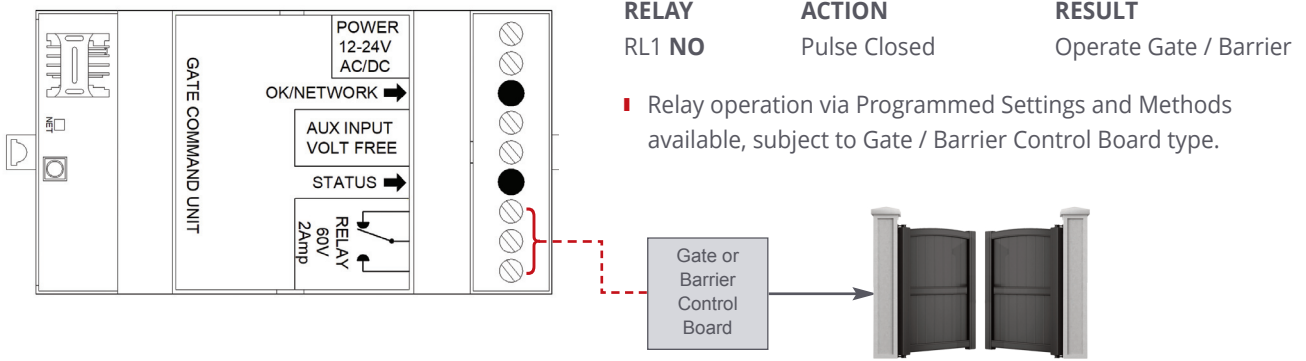
GATE COMMAND UNIT CONNECTIONS



APPLICATION AND CONNECTION

EXAMPLE 1.0

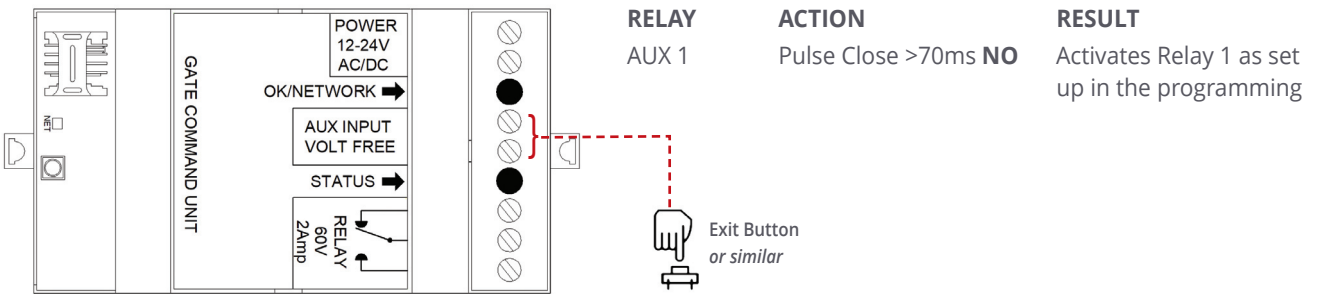
Application: GATE CONTROL UNIT TO GATE OR BARRIER SYSTEM
Condition: THE CONTROLLER REQUIRES A SIMPLE COMMAND TO OPERATE



- Methods of Relay Operation can include: DTMF Tone / Authorisation Recognition.
- Typical examples not common to all systems. Please follow the appropriate DHF Code of Practice accordingly.

EXAMPLE 2.0

Application: ALTERNATIVE EXIT CONTROL USING AUXILIARY INPUT
Condition: AUXILIARY INPUT TO ACTIVATE SET RELAY. EXAMPLE: PUSH TO EXIT



- Methods of Relay Operation can include: DTMF Tone / Authorisation Recognition.
- Typical examples not common to all systems. Please follow the DHF Code of Practice Guide accordingly.
- The singular Aux Input is for volt free exit release type buttons only. Damage will result if feeding voltage or any other item that is not a volt free contact.

APPLICATION AND CONNECTION

INSTALLING OR REPLACING THE SIM CARD

Ensure that the Unit is switched off at the plug before inserting or removing the micro SIM card.

When the micro SIM card is inserted CORRECTLY:

1. The Green "OK" LED is dual purpose
 - a. It will illuminate indicating that power is being received by the PCB
 - b. It will indicate the signal strength (RSSI) through a number of slow flashes:
 - i. 1 Flash = 1 Bar.
 - ii. Max 4 Flashes = 4 Bars.
2. The Blue "Network Status" LED will indicate connection status:
 - a. Off = Disconnected.
 - b. On solid = Connecting to the Network,
followed by:
 - c. Slow Flashing = Connected.

Should the micro SIM be inserted INCORRECTLY or not detected?

1. The Green "OK" LED will slow flash for approximately 20 seconds, then fast flash.
2. The Blue "Network Status" LED will be permanently On.

CONFIGURABLE SETTINGS + SMS SHORT COMMANDS

There are several Factory Default Settings that cannot be changed.

CONFIGURABLE SETTINGS

These allow local customisation of the Unit, typically by the Installer:

1. Incoming Numbers.
2. Activate Time Periods.
3. Manage Activation of Aux Input.
4. Solar Mode

Please note: Auxiliary Input is factory set as Input only and cannot be changed to an Output.

The Settings and Features can be programmed using the Commtel Config App and SMS Short Commands.

A guide is downloadable from www.commtel.tech

HIGHER TIER SUPPORT FROM DISTRIBUTOR AND PREMIER INSTALLERS

1. Remote Access and Configuration of the above.
2. Activity Logs.

SUPPORT AND SERVICES AVAILABLE FROM TELGUARD

Additional support services can be obtained from www.commtel.tech

1. Remote and Management Support Services:
 - a. All of the above.
 - b. Diagnostics.
 - c. Network Performance.
2. Extended Warranty.

INTERNAL CELL REPLACEMENT FOR REAL TIME CLOCK (RTC)

The Gate Command Unit is fitted with 3V Lithium cell CR1220, which provides backup to preserve Time and Date within the RTC during power down.

The 3 Volt Lithium cell CR1220 is mounted on the Gate Command Unit in a holder, this allows the cell to be changed, if/when needed.

For reference, the RTC has an accuracy of +/- 1.5mins per year.

The life of the cell is approximately 1 year if the Gate Command Unit is left un-powered.

A continuously powered up Gate Command Unit would allow the cell to achieve a shelf life of 10 years min.

REPLACING THE LITHIUM CELL

CAUTION: RISK OF EXPLOSION IF THE CELL IS REPLACED BY AN INCORRECT TYPE. THE CORRECT TYPE IS LITHIUM CELL CR1220.

Method:

1. Remove snap in cover from Gate Command Unit which will expose cell.
2. Slide the new cell into the holder.

Please dispose of or recycle the exhausted cell in a responsible way and according to the Cell manufacturer's instructions.

If storing un-powered Gate Command Units for an extended time, Telguard recommends that the cell is removed until the unit is needed.

ADVANCED TECHNICAL DATA SHEETS

There are a number of further advanced Technical Data Sheets downloadable from www.commtel.tech

1. Technical Specifications.
2. Relays Configurations.
3. Auxiliary Inputs.



EU CE DECLARATION OF CONFORMITY AND RADIO EQUIPMENT DIRECTIVE

This can be found at www.commtel-uk.com



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