



DTS Gcom500

GSM Gate controller

Operating Instruction Manual



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How to start using your Gcom500

Connect the Gcom500 to your required appliance (eg: gate motor or Alarm system)

Obtain your sim card cell number

Insert your cell phone sim card into the Gcom500

Purchase air time for the inserted sim card (approximately R50.00)

Power up the Gcom500 (LED will come on)

Wait for the LED to start flashing slowly.

Gcom500 is now connected to the network and ready to be used.

Gcom500 SMS Programming Codes

Default Administration Password (P/W) = 123456 (Can be changed to Alpha Numerical) (See note 2 below)

Default for Operator PIN = 999999

Max tel. number size = 16 Digits (Use international format e.g. +27831231234)

Note that the last character of the SMS must always finish with a “;” (semi-colon)

Parameter Settings Table

PGM Parameter	Admin	P Code	Data	Default
Change Admin default Password (P/W)	Old P/W,	A1A,	New 6 character password;	123456
Change 6 digit Operator PIN	Old PIN,	A1P	New 6 digit Operator PIN;	999999
Change device name	Password,	D1A,	Device name; (max. 20 characters)	
Change device number	Password,	D2A,	Tel. number;	
Change SMS recipient 1 (Alarm)	Password,	R1A,	Tel. number; (or Password R1D to delete)	
Change SMS recipient 2 (Alarm)	Password,	R2A,	Tel. number; (or Password R2D to delete)	
Change SMS recipient 3 (Alarm)	Password,	R3A,	Tel. number; (or Password R3D to delete)	
Change SMS recipient 4 (Alarm)	Password,	R4A,	Tel. number; (or Password R4D to delete)	
Add 1 to 8 gate access numbers	Password,	F2A,	Tel. number; (Tel.no.1,Tel.no.2,..Tel.no.8;)	
Add one temporary access number	Oper. PIN,	F2T,	Tel. number,No. of access days from now; (max. 99days)(See note 1 below)	
Delete 1 to 8 gate access numbers	Password,	F2D,	Tel. number; (Tel.no.1,Tel.no.2,..Tel.no.8;)	Enabled
Enable security mode	Password,	F3E;		
Disable security mode	Password,	F3D;		
Enable daily SMS status report	Password,	F4E;		
Disable daily SMS status report	Password,	F4D;		Disabled
Daily SMS status report time	Password,	F4T,	hh:mm; (24 hour format EG 13:00;)	12:00
Request status report	Password,	F4S;		
Request Configuration report	Password,	F4C;		
Enable power up report	Password,	F5E;		
Disable power up report	Password,	F5D;		Disabled
Power up report to recipient 1	Password,	F5S;		Enabled
Power up report to ALL recipients	Password,	F5A;		
Gate open alarm time	Password,	F6T,	Delay time in Sec; (max.9999sec.) (0=OFF)	240 sec.
Custom alarm message	Password,	F6M,	Message; (max. 148 characters) (Can be a relay command to another m2m)	
Alarm on input +12V (ON)	Password,	F6H;		ON
Alarm on input open (OFF)	Password,	F6L;		
Relay contact impulse on missed call	Password,	F7P;		Enabled
Relay contact ON/OFF & Pulse with SMS	Password,	F7L;	(To enable SMS control)	Disabled
Updated system Date & Time	Password,	TIME;	(Time automatically updated if using MTN)	
Request remaining airtime report	Password,	AIRTIME;		
Factory default & erase all numbers	Password,	DEFAULT;	(Allow 1 minute for operation to complete)	
Request over the air software update	Password,	SW UPDATE;	APN name,user name,password,FTP IP ADDR,user name,password,file path, file name;	(See note 4 below)
<u>Operators Commands</u>				
Add one temporary access number	Oper. PIN,	TEMP,	Tel. number,No. of access days from now; (max. 99days)(See note 1 below)	
Switch Relay ON	Oper. PIN,	RELAY ON;		
Switch Relay OFF	Oper. PIN,	RELAY OFF;		
Pulse relay ON/OFF	Oper. PIN,	PULSE;	(Fixed 1 second on time)	
Pulse relay ON/OFF	Oper. PIN,	Pulse,	RELAY ON TIME IN SECONDS; (Max. 99 seconds).	

Notes

- 1) Operator commands can use the Admin or Operator PIN. The Operator PIN cannot be used for Configuration Commands.
- 2) The 6 character password is case sensitive. All other text is not case sensitive.
- 3) When the customised alarm message is a command to another Gcom500 – terminate the line with a comma and a Semi-colon e.g. 123456,F6M,123456,PULSE,;
- 4) FTP site IP address is standard IPv4 format = xxx.xxx.xxx.xxx
All connection APN and FTP parameters will be case sensitive.
APN = Access Point Name.
FTP = File Transfer Protocol.

How to use the above parameter table.

Change Admin Password

Using an your cell phone, send an SMS message to the Gcom500 cell number with the following message.
Old Password,A1A,New 6 digit Password; (always finish your message with a semi-colon)
Eg: 123456,A1A,472567 or Abcd99;
Note- should you forget or have a problem with your Admin Password, please contact
DTS Security Products Head Office.

Notes:

- 1) Operator commands can use the Admin Pin or Operator Pin. The Operator Pin cannot be used for Configuration Commands.
- 2) The 6 character Admin Password is case sensitive. All other text is not case sensitive.

Add/Change device name (The name that will appear on your status message)

Using your cell phone, send an SMS message to the Gcom500 cell number with the following message.
Password,D1A,Device name; (max. 20 characters)
Eg: 123456,D1A,Home Front Gate;

Add/Change device number (The Gcom500 telephone number)

As above but using telephone number (remember to use international format) instead of a name.
Eg: 123456,D2A, +27831231234;

Add/Change SMS recipients

The above procedure remains the same. You must just select the right **P Code**
(R1A, R2A, R3A or R4A) for the recipient number. (Recipients must be consecutive)

Add gate access numbers

You can add 1, 2, 3, up to 8 numbers with one SMS.
Eg: the message for 1 number.
123456,F2A, +27831231234;

The message for more than 1 number.

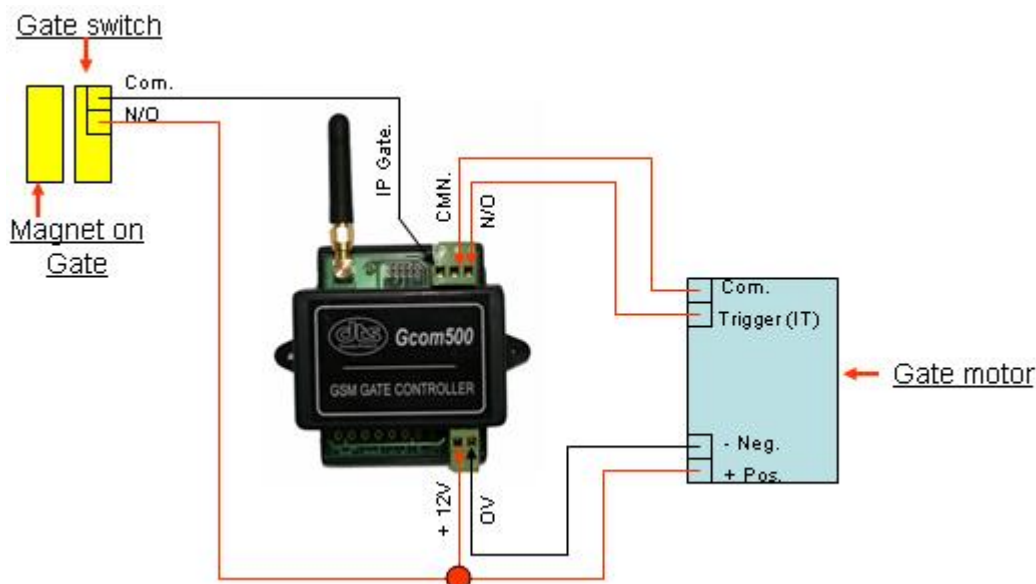
123456,F2A, +27831231234, +27831231235, +27831231236, up to 8 numbers;

Delete gate access numbers

Same as above but use correct **P Code** (F2D)

Note: All the other parameters are changed the same way as explained above using your PIN number followed by a comma followed by the P Code followed by a comma followed by the Data were applicable, always finishing off the message with a semi-colon.

Wiring of the Gcom500 to a gate motor



Please note that if the Gcom500 is located or mounted in a metal housing, the existing antenna must be removed and replaced with an external antenna with a SMA-RF connection.

Note: The Gate switch can also be an Alarm contact.

Gcom500 GSM Controller.

The Gcom500 is a universal single relay control unit designed for access control of automated gate systems or for general "SMS" or "Missed Call" Control/Switching applications.

Features.

Stores up to 500 telephone numbers for access control.
Permanent or time limited user access. (ideal for Hotels and Guest houses)
Real time calendar clock.
Configuration parameters remotely set by SMS.
Supply voltage monitoring. (will SMS a warning message if low voltage)
Single monitored input for ON/OFF condition SMS alarming.
Programmable time delay for input monitoring.
Output relay operated from SMS commands or free missed calls.
User programmable alarm message. (message can be a SMS command to another Gcom500)
Status and remaining airtime reporting.
Compatible with all local GSM networks.
Very low power consumption. (less than 20mA in standby)
Operates from 12VDC power supply. (battery backup recommended)
Low voltage output relay rated at 1Amp.
IP50 housing.
ICASA approved.

Typical Application.

Access control system.
Industrial or domestic alarm control and monitoring.
Electric fence control and monitoring.
Refrigeration monitoring.
Remote pump control / water level monitoring.

Manufacturers warranty.

- All goods manufactured by DTS Security Products carry a 24 month factory warranty from date of invoice.
- All goods are warranted to be free from faulty components and manufacture.
- Faulty goods will be repaired or replaced at the sole discretion of DTS Security Products, free of charge.
- This warranty is subject to the goods being returned to the premises of DTS Security Products.
- This warranty excludes lightning damage, insect damage and damage caused by faulty installation.
- In the event of the goods being supplied by dealer, merchant, agent or duly appointed installer of DTS Security Products, the claim must be directed to that supplier.
- The carriage of goods is for the customer's account.
- This warranty is only valid if the correct installation and application of goods, as laid out in the applicable documentation accompanying said goods, is adhered to.
- All warranty claims must be accompanied by the original invoice.
- The liability of DTS Security Products and / or their distributors is limited as herein set out DTS Security Products and / or their distributors will not be liable for consequential or incident damages howsoever arising.