

# PROFESSOR TECHNOLOGY CO.,LTD



# GPM500 & GPM500a Smart Tracking Solution

## Specification:

**GPM500-Q for Simcom 900 module 850/900/1800/1900Mhz**

**GPM500-D for Simcom 900A module 900/1800MHz**

**GPRS: TCP/IP build in GSM Module**

**GPS : SiRF GSC3 f/LPx**

**Channels:20 channels**

**Sensitivity:Tracking -159dBm**

**GPS Posttioning time: Cold start < 38sec (Open Sky)**

**Warm start < 15sec**

**Hot start < 2~3 sec (Open Sky)**

**GPS posttioning precision:10m (2D RM)**

**Voltage : 9v~ 43vDC (Impact resistance voltage <100v)**

**Operating currnt : 60mA (12vDC) ,48mA (24vDC)**

**Standby current : 23mA (12vDC) ,20mA(24vDC)**

**LED : GPS (Blue) GSM(Green) Charging(Red)**

**Built in 3 Axis: G-Sensor**

**Built in Drift suppression circuit**

**Built-in GSM antenna,& high gain GPS antenna**

**Built-in dynamic / static recognition feature**

**Command settings: support SMS Settings / platform settings**

**Temperature: -30° c ~ +70° c**

**Storage Temperature: -40° c~ +80° c**

**Humidity: 20% ~ 80% RH**

**Dimension:95(L) x 45(W) x16(H)mm**

**Weight:100g**

**\*\*\*Functions: positioning and monitoring/Trajectory replay /Mileage query**

**\*\*\*Automatically help: built-in G-Sensor Vehicle collision, automatically send for help or call the alarm number group**

**\*\*\*Hidden function: After installation, the remote operation of the LED lights off, to reach a hidden feature.**

**\*\*\*\*\*GPM500a Additional function : Remote off electricity and oil/SOS function\*\*\*\*\***

**Professor Technology Co., Ltd.**

**@2010~2011**

**GPM500-G1202-002A**

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## GPM500 & GPM500a COMMAND SETTING

### Main commands:

- Register mobile number (register the mobile number to the tracker and the tracker is only workable for the registered number)  
**Commands format: &&S,123456,S03,8613912345678**  
 86 is country code, 13912345678 is the new mobile number  
 The mobile can use the number to send commands like &&X.....&&Z, &&Y... etc. to tracker afterward.
- Modify commands through APN connection  
**Command format: &&Z10, CMNET, MP, HZ496,1**  
 APN=CMNET, account=MP, passwords=HZ496, 1 means to open the command  
 Remark 1: if there are no account and passwords, leave the space, like:  
 &&Z10,CMNET,,,1  
 Remark 2: the tracker is needed to restart after modifying commands. Turn on

again or send command &&Y09 to restart. If you choose to turn on the power, you have to disconnect the power and take out SIM card as well (the power will be turned off completely as SIM card exits).

3. Set IP and Port commands

Commands format: &&Z39,1,119.146.85.150,8800,1

IP=119.146.85.150, Server Port=8800, 1 means to open the command

Remark: the tracker is needed to restart after modifying commands. Turn on again or send command &&Y09 to restart. If you choose to turn on the power, you have to disconnect the power and take out SIM card as well (the power will be turned off completely as SIM card exits).

**Other Commands**

1. Modify tracker's passwords (you don't need set the command, if you don't want to modify)

Commands format: &&S,123456,S01,666666

Old passwords=123456, New passwords=666666 (original passwords=123456)

2. Turn off LED light (you don't need set the command, if you don't want a hidden installation)

Commands format: &&S,123456,S05,1#

1 means to turn off LED display, set "0" to return to normal display

(Remark: You can turn off LED display after installation if you don't want others to know your installation position.)

3. Inquire current coordinates **Commands format: &&Y01**

Tracker will have a message about coordinates after you send the command

4. Inquire hardware version **Commands format: &&Y06**

5. Optional command- restart **Commands format: &&Y09**

6. Optional command-Cutoff of Gas and power **Commands format: &&XA5**

(Note: the cutoff will be intermittent when the vehicle runs in high speed; the cutoff will be one time per second until the vehicle slows down).

7. Optional command- release cutoff **Commands format: &&XA6**

8. Inquire if Cutoff of gas and power is successful **Commands format: &&Y56**

Tracker will have a message "on" or "off"; "on" means cutoff is on and "off" means cutoff is closed

**Troubleshooting**

Please remember to make sure if your SIM card is able to get GPRS service and it is not suspended because of overdue bills

Notices:

1. When setting the commands, you have to input English characters and punctuations to mobile (under English version), or the commands will be failed.
2. The tracker will be in sleeping mode when the vehicle stops for a while. At that time, the tracker cannot receive the commands from platform and you have to send commands by mobile. You have to shake the tracker to be in working mode if you want to send commands through platform.

You have to shake the tracker as best as you can while installation since the tracker will be in sleeping mode for the sake of saving power. (The tracker is embedded an auto sensor to detect static status and it easily goes to sleeping mode).

## GPM500 & GPM500a Install / Setting

a. Wire Connection



b. Simcard Intall



c. GPM500 Power on



d. Remote Control Mobile

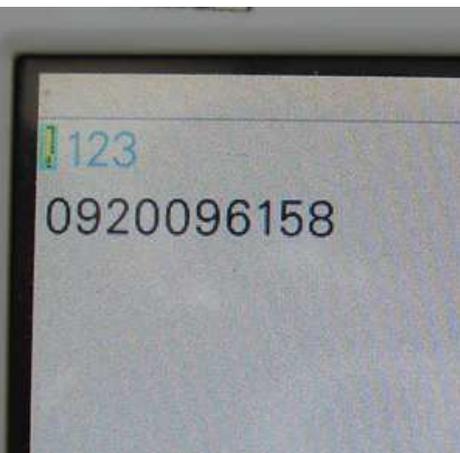
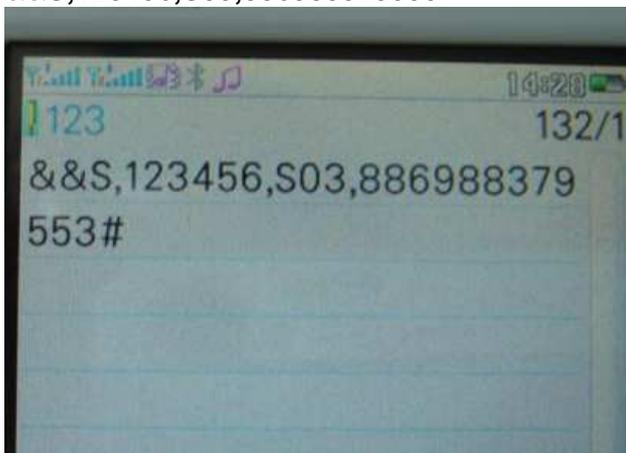


**Remote Control Mobile Phone No: 886-988-379553**

**GPM500 SIM Card Number #886-920-096158**

**e. Set Remote Control No  
&&S,123456,S03,886988379553#**

**f. Send SMS to GPM500 SIM Card No**



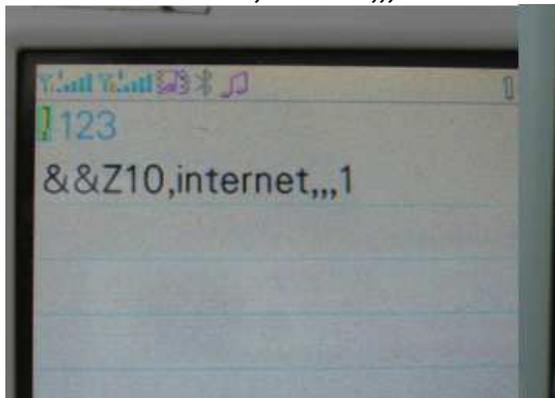
**g.After setting return SMS**



**h.Set "OK" SMS from GPM500**



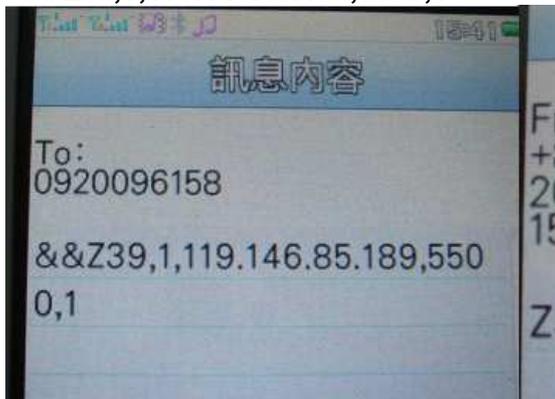
**i.Set APN &&Z10,internet,,1**



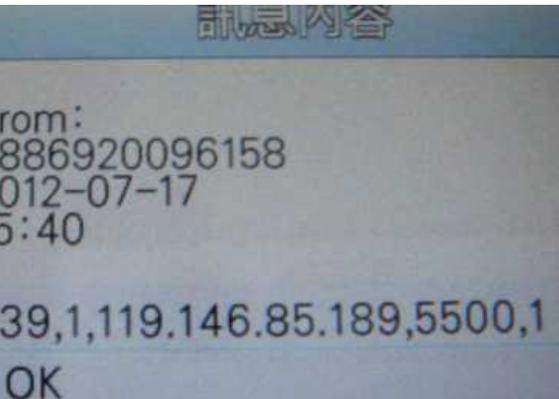
**j.Set APN "OK" Return SMS**



**k.Set IP,Port &&Z39,1,119.146.85.189,5500,1**



**l.Set IP,Port Done,Return SMS from GPM500**



**After Setting IP,Port need re-Power on the GPM500**