

MEITRACK GPRS Protocol

Applicable Model: T466G

Change History

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1 Command Format

1.1 GPRS Command Format

- GPRS command sent from the server to the tracker:
`@@<Data identifier><Data length>,<IMEI>,<Command type>,<Command content><*Checksum>\r\n`
- GPRS command sent from the tracker to the server:
`$$<Data identifier><Data length>,<IMEI>,<Command type>,<Command content><*Checksum>\r\n`

1.2 Tracker Command Format

`$$<Data identifier><Data length>,<IMEI>,<Command type>,<Event code>,<(-)Latitude>,<(-)Longitude>,<Date and time>,<Positioning status>,<Number of satellites>,<GSM signal strength>,<Speed>,<Direction>,<Horizontal dilution of precision (HDOP)>,<Altitude>,<Mileage>,<Run time>,<Base station info>,<I/O port status>,<Analog input value>,<Assisted event info>,<Customized data>,<Protocol version>,<Fuel percentage>,<Temperature sensor 1 value|Temperature sensor 2 value|.....Temperature sensor n value>,<Max acceleration value>,<Max deceleration value>,<*Checksum>\r\n`

Note:

- A comma (,) is used to separate data characters. The character type is the American Standard Code for Information Interchange (ASCII). (hexadecimal: 0x2C)
- Symbols "<" and ">" will not be present in actual data, only for documentation purpose only.
- All multi-byte data complies with the following rule: High bytes are prior to low bytes.
- The size of a GPRS data packet is about 160 bytes.

Descriptions about GPRS packets from the tracker are as follows:

Parameter	Description	Example
@@	Indicates the GPRS data packet header sent from the server to the tracker. The header type is ASCII. (Hexadecimal: 0x40)	@@
\$\$	Indicates the GPRS data packet header sent from the tracker to the server. The header type is ASCII. (Hexadecimal: 0x24)	\$\$
Data identifier	Contains 1 byte. The type is the ASCII, and its value ranges from 0x41 to 0x7A.	Q
Data length	Indicates the length of characters from the first comma (,) to \r\n. Decimal. Example: <code>\$\$<Data identifier><Data length>,<IMEI>,<Command type>,<Command content><*Checksum>\r\n</code>	25
IMEI	Indicates the tracker's IMEI number. The number type is ASCII. It has 15 digits generally.	353358017784062
Command type	Hexadecimal For details, see chapter 2 and chapter 3.	AAA
Event code	Decimal For details, see section 1.3 "Event Code."	1
Latitude	Unit: degree	22.756325 (indicates 22.756325°N)

(-)yy.dddddd	<p>Decimal</p> <p>When a minus (-) exists, the tracker is in the southern hemisphere. When no minus (-) exists, the tracker is in the northern hemisphere.</p> <p>yy indicates the degree.</p> <p>dddddd indicates the decimal part.</p>	-23.256438 (indicates 23.256438°S)
Longitude (-)xxx.dddddd	<p>Unit: degree</p> <p>Decimal</p> <p>When a minus (-) exists, the tracker is in the western hemisphere. When no minus (-) exists, the tracker is in the eastern hemisphere.</p> <p>xxx indicates the degree.</p> <p>dddddd indicates the decimal part.</p>	<p>114.752146 (indicates 114.752146°E)</p> <p>-114.821453 (indicates 114.821453°W)</p>
Date and time yymmddHHMMSS	<p>yy indicates year.</p> <p>mm indicates month.</p> <p>dd indicates day.</p> <p>HH indicates hour.</p> <p>MM indicates minute.</p> <p>SS indicates second.</p> <p>Decimal</p>	<p>091221102631</p> <p>Indicates 21 December 2009, 10:26:31 am.</p>
Positioning status	<p>Indicates the GPS signal status.</p> <p>A = Valid</p> <p>V = Invalid</p>	<p>A</p> <p>The GPS is valid.</p>
Number of satellites	<p>Indicates the number of received GPS satellites.</p> <p>Decimal</p>	<p>5</p> <p>Five GPS satellites are received.</p>
GSM signal strength	<p>Value: 0–31</p> <p>Decimal</p>	<p>12</p> <p>The signal strength is 12.</p>
Speed	<p>Unit: km/h</p> <p>Decimal</p>	<p>58</p> <p>The speed is 58 km/h.</p>
Direction	<p>Indicates the driving direction. The unit is degree. When the value is 0, the direction is due north. The value ranges from 0 to 359.</p> <p>Decimal</p>	<p>45: indicates that the location is at northeast.</p> <p>90: indicates that the location is at due east.</p>
HDOP	<p>The value ranges from 0.5 to 99.9. The smaller the value is, the more the accuracy is.</p> <p>Decimal</p> <p>When the accuracy value is 0, the signal is invalid.</p> <p>0.5–1: Perfect</p> <p>2–3: Wonderful</p> <p>4–6: Good</p> <p>7–8: Medium</p> <p>9–20: Below average</p> <p>21–99.9: Poor</p>	<p>5</p> <p>The HDOP is 5.</p>

Altitude	Unit: meter Decimal	118	
Mileage	Unit: meter Decimal Indicates the total mileage. The maximum value is 4294967295. If the value exceeds the maximum value, it will be automatically cleared.	564870	
Run time	Unit: second Decimal Indicates the total time. The maximum value is 4294967295. If the value exceeds the maximum value, it will be automatically cleared.	2546321	
Base station info	The base station information includes: MCC MNC LAC CI The MCC and MNC are decimal, while the LAC and CI are hexadecimal. Note: Base station information in an SMS is empty.	460 0 E166 A08B	
I/O port status	Hexadecimal Status values of eight input ports and eight output ports: Bits 0–7 correspond to status of output ports 1–8. Bits 8–15 correspond to status of input ports 1–8.	0421 (hexadecimal) = 0000 0100 0010 0001	
Analog input value	Hexadecimal Eight analog input values are separated by " ". AD1 AD2 AD3 Battery analog External power analog Unit: V Note: Analog input values in an SMS report are empty. Voltage formula of analog AD1–AD3: AD1/100 Voltage formula of battery analog (AD4): AD4/100 Voltage formula of external power supply (AD5): AD5/100	0123 0456 0235 1234 0324	
Assisted event info	Geo-fence number	32-bit unsigned Only available by GPRS event code 20 or 21.	02 00 00 00 (indicates geo-fence 2)
	Vehicle theft trigger source	32-bit unsigned Trigger code of a vehicle theft event Flag generated by event 58	01 00 00 00
	iButton ID	Indicates the ID number of an iButton key. Contains 8 hexadecimal characters. Only available by GPRS event code 37.	42770680 (hexadecimal)
	System flag	Contains 4 bytes; hexadecimal Bit 0: Whether to modify the EEP2 parameter. When the value is 1, the EEP2 parameter is modified. Bits 1–31: reserved. Only available by GPRS event code 35.	00000001 The EEP2 parameter is modified.

	Temperature sensor No.	The temperature sensor No. is set by command C40. Contains 2 hexadecimal characters. Note: The number is only available by event code 50 or 51.	08 (indicates temperature sensor 8)
	Driver fatigue alert	Format: A B C A: indicates the Montor version. The parameter value is 01 . Decimal. B: indicates the alert type. Contains 2 characters; decimal. <ul style="list-style-type: none"> ● 01: Mild fatigue ● 02: Moderate fatigue ● 03: Severe fatigue ● 04: Distraction alert ● 05: Absence alert ● 06: On Phone Call alert ● 07: Smoking alert ● 08: Yawning alert C: indicates the additional alert information. Contains at most 32 characters. Decimal. The parameter value is the name of a photo. Only available by GPRS event code 114.	01 08 180704002340_Yawning.jpg It indicates version 01, a yawning alert, photo name 180704002340_Yawning.jpg.
	Customized data	Reserved A separator still exists.	
	Protocol version	Decimal 1–50: Used for all common Meitrack protocols. 50–99: Used for OBD. When the protocol is compatible with the old tracker, the value is empty or is 0 by default.	3
	Fuel percentage	Contains 4 hexadecimal characters. When the fuel sensor type is 0 , the sensor is not connected and the value is empty.	0E2E The fuel percentage is 36.30%.
	Temperature sensor No. + Temperature value	Contains 6 hexadecimal characters. The first two characters are the temperature sensor No. The last four characters are the temperature value (actual temperature x 100; including the integer and decimal parts; -327.67°C to +327.67°C).	011A09 021A15 06FB2E There are 3 temperature sensors. Temperature sensor 1: 66.65°C Temperature sensor 2: 66.77°C Temperature sensor 6: -12.34°C
	Max acceleration value	Decimal Unit: mg Indicates the maximum acceleration value at the specific time interval of two pieces of AAA data.	30 The maximum acceleration value is 30mg.
	Max deceleration value	Decimal Unit: mg Indicates the maximum deceleration value at the specific	18 The maximum deceleration value 18mg.

	time interval of two pieces of AAA data.	
*	Separates commands from checksums. Contains 1 byte. ASCII (hexadecimal: 0x2A)	*
Checksum	Contains 2 bytes. Hexadecimal The parameter indicates the sum of all data (excluding the checksum and ending mark). Example: <u>\$\$<Data identifier><Data length><IMEI><Command type><Command content><*Checksum></u> \r\n	BE
\r\n	Contains 2 bytes. The parameter is an ending character. The type is ASCII. (Hexadecimal: 0x0d 0x0a)	\r\n

1.3 Event Code

Event Code	Event	Default SMS Header (At Most 16 Bytes)
1	Input 1 Active	In1 Active
2	Input 2 Active	In2 Active
3	Input 3 Active	In3 Active
4	Input 4 Active	In4 Active
9	Input 1 Inactive	In1 Inactive
10	Input 2 Inactive	In2 Inactive
11	Input 3 Inactive	In3 Inactive
12	Input 4 Inactive	In4 Inactive
17	Low Battery	Low Battery
18	Low External Battery	Low Ext-Battery
19	Speeding	Speeding
20	Enter Geo-fence	Enter Fence N (N means the number of the fence)
21	Exit Geo-fence	Exit Fence N (N means the number of the fence)
22	External Battery On	Ext-Battery On
23	External Battery Cut	Ext-Battery Cut
24	GPS Signal Lost	GPS Signal Lost
25	GPS Signal Recovery	GPS Recovery
26	Enter Sleep	Enter Sleep
27	Exit Sleep	Exit Sleep
28	GPS Antenna Cut	GPS Antenna Cut
29	Device Reboot	Power On
31	Heartbeat	/
32	Cornering	Cornering
33	Track By Distance	Distance
34	Reply Current (Passive)	Now

35	Track By Time Interval	Interval
36	Tow	Tow
37	iButton	(Only for GPRS)
40	Power Off	Power Off
41	Stop Moving	Stop moving
42	Start Moving	Start Moving
44	GSM Jamming	GSM Jamming
50	Temperature High	Temp High
51	Temperature Low	Temp Low
52	Full Fuel	Full Fuel
53	Low Fuel	Low Fuel
54	Fuel Theft	Fuel Theft
56	Armed	Armed
57	Disarmed	Disarmed
58	Vehicle Theft	Vehicle Theft
63	No GSM Jamming	No GSM Jamming
70	Reject Incoming Call	/
71	Get Location by Call	/
72	Auto Answer Incoming Call	/
73	Listen-in (Voice Monitoring)	/
78	Impact	Impact
82	Fuel Filling	Fuel Filling
83	Ult-Sensor Drop	Ult-Sensor Drop
90	Sharp Turn to Left	Harsh Cornering
91	Sharp Turn to Right	Harsh Cornering
94	Output 1 Active	Out1 Active
95	Output 2 Active	Out2 Active
96	Output 1 Inactive	Out1 Inactive
97	Output 2 Inactive	Out2 Inactive
114	Driving Behavior	/
129	Harsh Braking	Harsh Braking
130	Harsh Acceleration	Fast Accelerate
133	Idle Overtime	Idle Overtime
134	Idle Recovery	Idle Recovery
135	Fatigue Driving	Fatigue Driving
136	Enough Rest after Fatigue Driving	Enough Rest
139	Maintenance Notice	Maintenance

2 Command List

Command	Command Description
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A10	Real-Time Location Query
A11	Setting a Heartbeat Packet Reporting Interval
A12	Tracking by Time Interval
A13	Setting the Cornering Report
A14	Tracking by Distance
A15	Setting the Parking Scheduled Tracking Function
A16	Enabling the Parking Scheduled Tracking Function
A17	Controlling Output 1 Status by iButton
A21	Setting GPRS Parameters
A22	Setting the DNS Server IP Address
A23	Setting the Standby GPRS Server
A70	Reading All Authorized Phone Numbers
A71	Setting Authorized Phone Numbers
A72	Setting Listen-in Phone Numbers
A73	Setting the Smart Sleep Mode
AAA	Automatic Event Report
AFF	Deleting a GPRS Event in the Buffer
B05	Setting a Geo-Fence
B06	Deleting a Geo-Fence
B07	Setting the Speeding Alert
B08	Setting the Towing Alert
B09	Setting the Vibration Sensitivity Level
B10	Fast Setting the Towing Alert
B11	Setting a Polygonal Geo-Fence
B14	Setting the Idling Alert
B15	Setting Driver Fatigue Parameters
B21	Setting the Anti-Theft Function
B27	Setting Auto Arming
B34	Setting a Log Interval
B35	Setting the SMS Time Zone
B36	Setting the GPRS Time Zone
B37	Setting the Auto Sleep Function
B38	Setting the Auto Sleep Voltage
B60	Determining Vehicle Status by ACC Status
B99	Setting Event Authorization
BA6	Setting the Sensitivity(Telephone)
C01	Controlling Output Status
C02	Notifying the Tracker of Sending an SMS
C03	Setting a GPRS Event Transmission Mode
C08	Setting I/O Port Status
C40	Registering a Temperature Sensor Number
C41	Deleting a Registered Temperature Sensor

C42	Reading the Temperature Sensor SN and Number
C43	Setting the Temperature Threshold and Logical Name
C44	Reading Temperature Sensor Parameters
C46	Checking Temperature Sensor Parameters
C47	Setting Fuel Parameters
C48	Reading Fuel Parameters
C61	Transparently Transmitting Data over the Serial Port
C85	Setting the GSM Jamming Detection Function
C90	Setting the Driver Fatigue Function
D00	Obtaining a Picture
D01	Obtaining the Picture List
D02	Deleting a Picture
D03	Taking Photos on Demand
D10	Authorizing an iButton Key Card
D11	Authorizing iButton Keys Cards in Batches
D12	Checking iButton Authorization
D13	Reading an Authorized iButton Key
D14	Deleting an Authorized iButton Key
D15	Deleting Authorized iButton Keys in Batches
D16	Checking the Checksum of the Authorized iButton ID Database
D65	Setting the Maintenance Mileage
D66	Setting Maintenance Time
D71	Setting GPS Data Filtering
D72	Setting Output Triggering
D73	Allocating GPRS Cache and GPS LOG Storage Space
D79	Setting Harsh Acceleration and Harsh Braking Parameters
D80	Setting Harsh Cornering Parameters
E91	Reading Device's Firmware Version and SN
F00	Restarting the GSM and GPS Modules
F01	Restarting the GSM Module
F02	Restarting the GPS Module
F08	Setting the Mileage and Run Time
F09	Deleting SMS/GPRS Cache Data
F11	Restoring Initial Settings

3 Command Details

3.1 Real-Time Location Query – A10

GPRS Sending	A10
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GPRS Reply	AAA,34,(-)Latitude,(-)Longitude,Date and time,Positioning status,Number of satellites,GSM signal strength,Speed,Direction,HDOP,Altitude,Mileage,Run time,Base station info,I/O port status,Analog input value
Description	34: indicates the GPRS command event code.
Example	
GPRS Sending	@@Q25,353358017784062,A10*6A\r\n
GPRS Reply	\$\$Q128,353358017784062,AAA,34,22.543176,114.078448,100313093738,A,5,22,2,205,5,-14,0,60,0 0 10133 4110,0000,149 153 173 2707 914,*91\r\n

3.2 Setting a Heartbeat Packet Reporting Interval – A11

GPRS Sending	A11,Interval
GPRS Reply	A11,OK
Description	<p>The heartbeat packet function is used to keep the Transmission Control Protocol (TCP) connection open when the interval of scheduled GPRS reporting is long.</p> <p>Interval = 0: function disabled (default).</p> <p>Interval = [1...65535]: function enabled. Unit: minute.</p> <p>The heartbeat function is available only in conjunction with deep sleep mode. When the device enters deep sleep mode, a heartbeat packet will be sent at the specified interval.</p> <p>A heartbeat packet is to confirm the device is online, and positioning data is invalid.</p>
Example	
GPRS Sending	@@S28,353358017784062,A11,10*FD\r\n
GPRS Reply	<p>\$\$S28,353358017784062,A11,OK*FE\r\n</p> <p>After the above command is run successfully, the tracker will send the following GPRS heartbeat packet to the platform every 10 minutes in sleep mode:</p> <p>\$\$a131,353358017784062,AAA,31,22.913458,114.083183,080229123628,V,9,23,21,83,1,18,1350,127,0 0 10133 4110,0000,169 181 184 2714 919,*60</p>

3.3 Tracking by Time Interval – A12

GPRS Sending	A12,Interval
GPRS Reply	A12,OK
Description	<p>Unit: x10 seconds</p> <p>Interval = 0: function disabled.</p> <p>The maximum time interval is 65535 x 10 seconds.</p> <p>6 x 10 seconds are recommended.</p>
Example	
GPRS Sending	@@V27,353358017784062,A12,6*D5\r\n
GPRS Reply	<p>\$\$V28,353358017784062,A12,OK*02\r\n</p> <p>After the above command is run successfully, the tracker will send the following GPRS data packet to the platform every 1 minute:</p> <p>\$\$W129,353358017784062,AAA,35,22.540113,114.076141,100313094354,A,5,22,1,17,4,4,129,0,435,0 0 10133 4110,0000,166 224 193 2704 916,*BE\r\n</p>

3.4 Setting the Cornering Report – A13

GPRS Sending	A13,Angle
GPRS Reply	A13,OK
Description	<p>When the driving angle exceeds the preset value, the tracker will send a GPRS data packet with location information to the server, which ensures a smoother route on the platform.</p> <p>Angle = 0: function disabled (default).</p> <p>Angle = [1...359]: function enabled. Recommended value: 30.</p>
Example	
GPRS Sending	@@X29,353358017784062,A13,120*37\r\n
GPRS Reply	<p>\$\$X28,353358017784062,A13,OK*05\r\n</p> <p>After the above command is run successfully, if the cornering angle is greater than 120 degree, the tracker will send the following GPRS data packet to the server:</p> <p>\$\$Y129,353358017784062,AAA,32,22.540968,114.077455,100313094534,A,4,22,1,166,3,175,0,534,0 0 10133 4110,0000,141 138 159 2691 904,*D9\r\n</p>

3.5 Tracking by Distance – A14

GPRS Sending	A14,Distance
GPRS Reply	A14,OK
Description	<p>Distance = 0: function disabled (default).</p> <p>Distance = [1...65535]: function enabled. Unit: meter.</p> <p>Note: When both the GPRS time interval and distance tracking functions are enabled, the "first reach first report" rule will be applied. For example, set the time interval to 6 x 10 seconds and distance to 200 meters. If the road is clear, a distance data packet will be reported first; if there is heavy traffic on the road, a time interval data packet will be reported first. Then both the time interval and distance counters will be reset to 0.</p> <p>300 is recommended.</p>
Example	
GPRS Sending	@@D30,353358017784062,A14,1000*4A\r\n
GPRS Reply	<p>\$\$D28,353358017784062,A14,OK*F2\r\n</p> <p>After the above command is run successfully, if the driving distance reaches 1000m, the tracker will send a data packet to the server.</p> <p>\$\$D131,353358017784062,AAA,33,22.547271,114.047405,080310080929,A,8,21,13,89,1,12,8525,561,0 0 10133 4110,0000,163 185 186 2712 939,*31\r\n</p>

3.6 Setting the Parking Scheduled Tracking Function – A15

GPRS Sending	A15,Interval
GPRS Reply	A15,OK
Description	The function is available for vehicle trackers only. With the function, the number of GPRS

	<p>messages is reduced, and thus GPRS traffic is saved.</p> <p>After the A15 function is set, the A16 function is automatically enabled. For details about engine status, see section 3.7 "Enabling the Parking Scheduled Tracking Function – A16."</p> <p>Interval unit: x10 seconds</p> <p>Interval = 0: function disabled.</p> <p>The maximum interval is 65535 x 10 seconds.</p> <p>Note: If data needs to be sent at the specified interval after the vehicle starts or stops, the function needs to work with the A12 function.</p>
Example	
GPRS Sending	@@E27,353358017784062,A15,6*C7\r\n
GPRS Reply	\$\$E28,353358017784062,A15,OK*F4\r\n

3.7 Enabling the Parking Scheduled Tracking Function – A16

GPRS Sending	A16,Status
GPRS Reply	A16,OK
Description	<p>The function is available for vehicle trackers only. The first positive input port (high level) of a vehicle tracker must connect to engine detection. Otherwise, the function is unavailable.</p> <p>When the activation status is 1, the parking scheduled tracking function is enabled; when the activation status is 0, the function is disabled. GPRS data is sent at the following interval:</p> <ul style="list-style-type: none"> ● Interval of the A12 function when the engine is on ● Interval of the A15 function when the engine is off
Example	
GPRS Sending	@@F27,353358017784062,A16,0*C3\r\n
GPRS Reply	\$\$F28,353358017784062,A16,OK*F6\r\n

3.8 Controlling Output 1 Status by iButton – A17

GPRS Sending	A17,X
GPRS Reply	A17,OK
Description	<p>X = 1: function enabled. Before using the function, ensure that ACC detection is connected to input 3 and a iButton key has been authorized.</p> <p>X = 0: function disabled (default).</p> <p>For example: After swiping the authorized iButton key, you must start the engine within 1 minute. If the time exceeds 1 minute, you need to swipe the card again. After the engine is started, input 3 has been detecting the ACC status. If ACC ON is detected (that is, input 3 is the high level), output 1 will not generate data. If ACC OFF is detected, after 1 minute, swipe the authorized iButton key to start the engine as required.</p> <p>For details about how to authorize an iButton key, see commands D10–D15.</p>
Example	
GPRS Sending	@@T27,353358017784062,A17,1*D3\r\n

GPRS Reply	\$\$T28,353358017784062,A17,OK*05\r\n
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3.9 Setting GPRS Parameters – A21

GPRS Sending	A21,Connection mode,IP address,Port,APN,APN user name,APN password
GPRS Reply	A21,OK
Description	<p>Connection mode = 0: function disabled.</p> <p>Connection mode = 1: function enabled; use TCP/IP reporting mode.</p> <p>Connection mode = 2: function enabled; use UDP reporting mode.</p> <p>IP address: IP address or domain name. A maximum of 32 bytes are supported.</p> <p>Port: a maximum of 5 digits.</p> <p>APN/APN user name/APN password: a maximum of 32 bytes respectively.</p> <p>If no user name and password are required, leave them blank.</p> <p>Note:</p> <ol style="list-style-type: none"> 1. If you want to change a parameter (named A), the parameter before A cannot be empty. 2. If you do not want to change the parameters after A, no comma is required when you edit the command. 3. If you want to clear the parameters after A, commas are required when you edit the command. <p>For example, if you want to change the IP address and port only, send A21,1,192.168.1.1,8800.</p>
Example	
GPRS Sending	@@H48,353358017784062,A21,1,67.203.13.26,8800,,,*C9
GPRS Reply	\$\$H28,353358017784062,A21,OK*F4\r\n

3.10 Setting the DNS Server IP Address – A22

GPRS Sending	A22,DNS server IP address
GPRS Reply	A22,OK
Description	<p>An incorrect DNS server IP address may lead to GPRS data reporting failures after the A21 command is used. Use the A22 command to set the DNS server IP address (confirm the IP address with your domain name provider). Then use the A21 command to reset the domain name.</p> <p>DNS server IP address: a maximum of 16 bytes</p>
Example	
GPRS Sending	@@K38,353358017784062,A22,75.127.67.90*FD\r\n
GPRS Reply	\$\$K28,353358017784062,A22,OK*F8\r\n

3.11 Setting the Standby GPRS Server – A23

GPRS Sending	A23,IP address,Port
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GPRS Reply	A23,OK
Description	IP address: a maximum of 32 bytes Port: a maximum of 5 digits When the tracker fails to send data to the active server set by command A21, data is automatically sent to the standby server to prevent data loss.
Example	
GPRS Sending	@@S43,353358017784062,A23,67.203.13.26,8800*F0
GPRS Reply	\$\$S28,353358017784062,A23,OK*01\r\n

3.12 Reading All Authorized Phone Numbers – A70

GPRS Sending	A70
GPRS Reply	A70,SOS phone number 1,SOS phone number 2,SOS phone number 3,Listen-in phone number 1,Listen-in phone number 2
Description	Read all authorized phone numbers.
Example	
GPRS Sending	@@T25, 353358017784062,A70*93\r\n
GPRS Reply	\$\$T85,353358017784062,A70,13811111111,13822222222,13833333333,13844444444,13855555555*21\r\n

3.13 Setting Authorized Phone Numbers – A71

GPRS Sending	A71,Phone number 1,Phone number 2,Phone number 3
GPRS Reply	A71,OK
Description	Phone number: A phone number has a maximum of 16 bytes. If no phone numbers are set, leave them blank. Phone numbers are empty by default. Phone number 1: SOS phone number. When you call the tracker by using the phone number, you will receive SMS notification about the location, geo-fence alert and low power alert. When the SOS button is pressed, the tracker will dial phone numbers 1, 2, and 3 in sequence. The tracker stops dialing when a phone number responds.
Example	
GPRS Sending	@@U61,353358017784062,A71,13811111111,13822222222,13833333333*7D\r\n
GPRS Reply	\$\$U28,353358017784062,A71,OK*06\r\n

3.14 Setting Listen-in Phone Numbers – A72

GPRS Sending	A72,Listen-in phone number 1,Listen-in phone number 2
GPRS Reply	A72,OK
Description	When you call the tracker by using authorized listen-in phone numbers, the tracker will answer the call automatically and enter the listen-in state. In this way, the tracker will not make any sound.

	<p>Listen-in phone number: A maximum of two phone numbers can be set. Each phone number has a maximum of 16 digits. If no phone numbers are set, leave them blank. Phone numbers are empty by default.</p> <p>If no phone numbers are set and commas are remained, phone numbers set before will be deleted.</p>
Example	
GPRS Sending	@@V49,353358017784062,A72,13844444444,13855555555*55\r\n
GPRS Reply	\$\$V28,353358017784062,A72,OK*08\r\n

3.15 Setting the Smart Sleep Mode – A73

GPRS Sending	A73,Sleep level
GPRS Reply	A73,OK
Description	<p>Set the automatic smart sleep mode when the tracker is idle.</p> <p>Sleep level = 0: function disabled (default).</p> <p>Sleep level = 1: normal sleep. The GSM module always works, and the GPS module occasionally enters the sleep mode. The tracker works 25% longer in the normal sleep mode than that in the normal working mode. This mode is not recommended for short interval tracking; this will affect the route precision.</p> <p>Sleep level = 2: deep sleep. If no event is triggered after five minutes, the GPS module will stop working and the GSM module will enter sleep mode. Once an event is triggered, the GPS and GSM modules will be woken up. A heartbeat event will be triggered only in the deep sleep mode, which will be uploaded every one hour by default.</p> <p>Triggering events include: SOS alert, low internal/external battery, external power status, GPS antenna cutoff alert, towing alert, high temperature, low temperature, fuel theft, vehicle theft, ACC ON, (button) changes on any input port, vibration, incoming call, SMS receiving, call, and heartbeat event (The GPS is disabled during heartbeat wakeup.).</p> <p>Note: In any condition, you can use an SMS or a GPRS command to disable the sleep mode, and then the tracker exits the sleep mode and returns back to the normal working mode.</p>
Example	
GPRS Sending	@@W27,353358017784062,A73,2*D9\r\n
GPRS Reply	\$\$W28,353358017784062,A73,OK*0A\r\n

3.16 Automatic Event Report – AAA

GPRS Event Report	AAA,Command type,(-)Latitude,(-)Longitude,Date and time,Positioning status,Number of satellites,GSM signal strength,Speed,Direction,HDOP,Altitude,Mileage,Run time,Base station info,I/O port status,Analog input value
Description	When an event occurs, the tracker automatically reports the event to the server.
Example	
GPRS Reply	When you press the SOS button, the tracker will send the following information to the server:

	<pre>\$\$G127,353358017784062,AAA,1,22.538169,114.075958,100313095653,A,3,21,4,46,5,581,0,148,0 0 10133 4172,0000,166 204 205 2709 878,*77\r\n</pre>
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3.17 Deleting a GPRS Event in the Buffer – AFF

GPRS Sending	AFF,Number of deleted GPRS events
GPRS Reply	Use the AFF command to clear the existing data when the GPRS connection mode is UDP. AFF,Number of remaining cache,Command type, (-)Latitude,(-)Longitude,Data and time,Positioning status,Number of satellites,GSM signal strength,Speed,Direction,HDOP,Altitude,Mileage,Run time,Base station info,I/O port status,Analog input value
Description	Number of deleted GPRS events: hexadecimal. In general, the number is 1. Number of remaining cache: indicates the number of events in the buffer; hexadecimal.
Example	
GPRS Sending	@@h27,353358017784062,AFF,1*0B\r\n
GPRS Reply	\$\$h28,353358017784062,AFF,OK*3D\r\n

3.18 Setting a Geo-Fence – B05

GPRS Sending	B05,Geo-fence number,Latitude,Longitude,Radius,Enter Geo-fence alert,Exit Geo-fence alert
GPRS Reply	B05,OK
Description	Geo-fence number: 1–8. A maximum of eight geo-fences can be set. Latitude: latitude of the geo-fence center; decimal; accurate to 6 digits after the decimal point. If there are only 4 digits after the decimal point, add two digits 0. Otherwise, the command cannot be used successfully. Longitude: longitude of the geo-fence center; decimal; accurate to 6 digits after the decimal point. If there are only 4 digits after the decimal point, add two digits 0. Otherwise, the command cannot be used successfully. Radius: The value ranges from 1 to 4294967295. The unit is meter. Enter Geo-fence alert = 0: function disabled. Enter Geo-fence alert = 1: function enabled. Exit Geo-fence alert = 0: function disabled. Exit Geo-fence alert = 1: function enabled.
Example	
GPRS Sending	@@H57,353358017784062,B05,1,22.913191,114.079882,1000,0,1*96\r\n
GPRS Reply	<pre>\$\$H28,353358017784062,B05,OK*F7\r\n</pre> <p>When the tracker exits the geo-fence (latitude: 22.913191; longitude: 114.079882; radiu: 1000m), it will send the following GPRS data packet to the server:</p> <pre>\$\$J132,353358017784062,AAA,21,22.918046,114.089726,080229123812,A,10,22,12,32,1,21,6667,847,0 0 10133 4110,0000,124 181 183 2714 922,*5A\r\n</pre>

3.19 Deleting a Geo-Fence – B06

GPRS Sending	B06,Geo-fence number
GPRS Reply	B06,OK
Description	Geo-fence number: 1–8. Only one geo-fence can be deleted each time by SMS or GPRS command.
Example	
GPRS Sending	@@J27,353358017784062,B06,1*C8\r\n
GPRS Reply	\$\$J28,353358017784062,B06,OK*FA\r\n After the above command is run successfully, the first geo-fence will be deleted.

3.20 Setting the Speeding Alert – B07

GPRS Sending	B07,Driving speed
GPRS Reply	B07,OK
Description	Driving speed = 0: function disabled (default). Driving speed = [1...255]: function enabled. Unit: km/h. When the driving speed reaches the preset value, a speeding alert will be generated.
Example	
GPRS Sending	@@P28,353358017784062,B07,60*05\r\n
GPRS Reply	\$\$P28,353358017784062,B07,OK*01\r\n When the tracker driving speed reaches 60 km/h, it will send the following information to the server: \$\$k134,353358017784062,AAA,19,22.916675,114.088813,080229123718,A,10,22,61,31,1,21,6635,395,460 0 10133 4110,0000,164 185 181 2712 915,*F7\r\n

3.21 Setting the Towing Alert – B08

GPRS Sending	B08,Vibration time
GPRS Reply	B08,OK
Description	When the tracker's vibration time exceeds the preset value, the tracker will send an alert to an authorized phone number or the server. Before using the towing alert function, use the A73 command to set the smart sleep level to 2 and use the B08 command to set the consecutive vibration time. Otherwise, the towing alert function will be unavailable. Vibration time = 0: function disabled (default). Vibration time = [1...255]: function enabled. Unit: second.
Example	
GPRS Sending	@@I27,353358017784062,B08,3*CB\r\n
GPRS Reply	\$\$I28,353358017784062,B08,OK*FB\r\n When the tracker vibrates for more than three consecutive seconds, it will send the following information to the server: \$\$K133,353358017784062,AAA,36,22.916675,114.088813,080229123718,A,10,22,61,3

	1,1,21,6635,395,460 0 1013 4110,0000,164 185 181 2712 915,*A2
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3.22 Setting the Vibration Sensitivity Level – B09

GPRS Sending	B09, <i>Sensitivity level</i>
GPRS Reply	B09,OK
Description	<p>The vibration sensitivity level is used to detect whether the tracker stops moving, starts moving or is woken up by vibration, or a towing alert is generated.</p> <p>Sensitivity level: The parameter value ranges from 1 to 65535. The default value is 1, and the parameter value cannot be 0. The smaller the parameter value is, the stronger the sensitivity is.</p>
Example	
GPRS Sending	@@I27,353358017784062,B09,1*CA\r\n
GPRS Reply	\$\$I28,353358017784062,B09,OK*FC\r\n

3.23 Fast Setting the Towing Alert – B10

GPRS Sending	B10, <i>Vibration time,Idling time</i>
GPRS Reply	B10,OK
Description	<p>Vibration time = 0: function disabled (default).</p> <p>Vibration time = [1...255]: function enabled. Unit: second.</p> <p>Idling time: The default value is 2. Unit: minute.</p> <p>Idling time = 0: The deep sleep mode will be disabled.</p> <p>Idling time = [1...255]: The power-saving function will be enabled. When the idling time exceeds the preset value, the tracker will enter deep sleep mode.</p>
Example	
GPRS Sending	@@I30,353358017784062,B10,10,5*4D\r\n
GPRS Reply	\$\$I28,353358017784062,B10,OK*F4\r\n

3.24 Setting a Polygonal Geo-Fence – B11

GPRS Sending	B11, <i>Geo-fence number,Latitude 1,Longitude 1,Latitude 2,Longitude 2...Latitude N,Longitude N,Enter Geo-fence alert,Exit Geo-fence alert</i>
GPRS Reply	B11,OK
Description	<p>Geo-fence number: The parameter value ranges from 1 to 8. (The maximum value varies depending on customization projects.)</p> <p>Latitude: accurate to 6 digits after the decimal point. For example, 22.512517 or -22.512517.</p> <p>Longitude: accurate to 6 digits after the decimal point. For example, 114.057200 or -114.057200.</p> <p>Enter Geo-fence alert: The parameter value is 0 or 1.</p> <ul style="list-style-type: none"> ● 0: An alert will not be generated when the tracker enters the geo-fence.

	<ul style="list-style-type: none"> ● 1: An alert will be generated when the tracker enters the geo-fence. Exit Geo-fence alert: The parameter value is 0 or 1. ● 0: An alert will not be generated when the tracker exits the geo-fence. ● 1: An alert will be generated when the tracker exits the geo-fence. <p>If the command only contains the parameter Geo-fence number, related geo-fences will be deleted.</p>
Example	
GPRS Sending	@@I94,353358017784062,B11,1,22.526922,114.052695,22.526946,114.056232,22.523720,114.053521,1,1*D5\r\n
GPRS Reply	\$\$I28,353358017784062,B11,OK*F5\r\n

3.25 Setting the Idling Alert – B14

GPRS Sending	B14, <i>Time (second)</i> , <i>Speed (km/h)</i> , <i>time</i>
GPRS Reply	B14,OK
Description	<p>The function is used to detect idling. The tracker must be connected to ACC detection. Otherwise, the function will be unavailable.</p> <p>Time: indicates the consecutive time for the speed. The parameter value ranges from 0 to 60000. Unit: second.</p> <p>Speed: The parameter value ranges from 0 to 200. Unit: km/h. (5 km/h is recommended.) An idling alert will be generated when the following conditions are met simultaneously: the device detects that the ACC is on; the speed is lower than the preset value; and the consecutive time for the speed is larger than the preset value.</p> <p>If you want to read the parameters, send B14.</p> <p>Time: Temporarily empty, reserved function</p> <p>Note: The alert activation conditions may be affected due to static drift. Therefore, you are advised to set the speed to a value between 5 km to 10 km and the consecutive time for the speed to a value that is larger than 60 seconds.</p>
Example	
GPRS Sending	@@I31,353358017784062,B14,60,5,*83\r\n
GPRS Reply	\$\$I28,353358017784062,B14,OK*F8\r\n

3.26 Setting Driver Fatigue Parameters – B15

GPRS Sending	B15, <i>Consecutive driving time (min)</i> , <i>Reserved value</i> , <i>Rest time (min)</i> , <i>Related to speed or not</i>
GPRS Reply	B15,OK
Description	<p>The command is used to detect driver fatigue.</p> <p>Consecutive driving time: The parameter value ranges from 0 to 1000. Unit: minute. When the consecutive driving time exceeds the preset value, driver fatigue detection will be activated.</p> <p>Reserved value: Leave the parameter blank for later use.</p> <p>Rest time: The parameter value ranges from 0 to 1000. Unit: minute. Drivers must have a</p>

	<p>rest based on the preset time. When the tracker detects that the ACC is off or the speed is 0, the driver fatigue alert will be cleared.</p> <p>Related to speed or not: The parameter value is 0 or 1. 0: The driving status is related to the ACC only. 1: The driving status is related to the ACC and speed.</p> <p>Each parameter can be set separately, and the commas in this command need to be remained. For example, the command for setting the parameter Related to speed or not is B15,,,,1, and the command for setting the parameter Consecutive driving time is B15,300.</p> <p>If you want to read the parameters, send B15.</p>
Example	
GPRS Sending	@@I35,353358017784062,B15,120,,20,1*3F\r\n
GPRS Reply	\$\$I28,353358017784062,B15,OK*F9\r\n

3.27 Setting the Anti-Theft Function – B21

GPRS Sending	B21, <i>Status</i>
GPRS Reply	B21,OK
Description	<p>Status = 1: function enabled (default).</p> <p>Status = 0: function disabled.</p> <p>Note: A vehicle theft alert will be generated only when the device is in arming state.</p>
Example	
GPRS Sending	@@C27,353358017784062,B21,1*BE\r\n
GPRS Reply	\$\$C28,353358017784062,B21,OK*F0\r\n

3.28 Setting Auto Arming – B27

GPRS Sending	B27,X
GPRS Reply	B27,OK
Description	<p>X: Whether to enable auto arming. When the parameter value is 1, auto arming will be enabled. When the parameter value is 0, auto arming will be disabled.</p> <p>When the device is in sleep mode and the auto arming function has been enabled, the device will enter auto arming state.</p> <p>You can set disarming by B21 command or remote control.</p>
Applicable Model	T366/T366G
Example	
GPRS Sending	@@I27,353358017784062,B27,1*CA\r\n
GPRS Reply	\$\$I28,353358017784062,B27,OK*FC\r\n

3.29 Setting a Log Interval – B34

GPRS Sending	B34, <i>Log interval</i>
GPRS Reply	B34,OK

Description	Set the interval for recording data to device's memory when the GPS signal is valid. Recorded logs can only be read by GPSLog or Meitrack Manager software. Log interval = 0: function disabled (default). Log interval = [1...65535]: function enabled. Unit: second.
Example	
GPRS Sending	@@N28,353358017784062,B34,60*03\r\n
GPRS Reply	\$\$N28,353358017784062,B34,OK*FF\r\n

3.30 Setting the SMS Time Zone – B35

GPRS Sending	B35,SMS minute
GPRS Reply	B35,OK
Description	The default time zone of the tracker is GMT 0. You can run the B35 command to change the time zone of an SMS report to the local time zone. The time zone of an SMS report is different from the GPRS data packet time zone. When SMS minute is 0 , the time zone is GMT 0 . When SMS minute is a value ranging from -32768 to 32767, set time zones.
Example	
GPRS Sending	@@O29,353358017784062,B35,480*3C\r\n
GPRS Reply	\$\$O28,353358017784062,B35,OK*01\r\n <i>After the above command is run successfully, the tracker SMS time zone is changed to UTC+08:00 (China time zone).</i>

3.31 Setting the GPRS Time Zone – B36

GPRS Sending	B36,GPRS minute
GPRS Reply	B36,OK
Description	When GPRS minute is 0 , the time zone is GMT 0 (default). The MS02 can automatically detect the user time zone, so that the GPRS time zone does not need to be changed. Otherwise, inaccurate data occurs. When GPRS minute is a value ranging from -32768 to 32767, set time zones.
Example	
GPRS Sending	@@P29,353358017784062,B36,480*3E\r\n
GPRS Reply	\$\$P28,353358017784062,B36,OK*03\r\n <i>After the above command is run successfully, the GPRS time zone is changed to UTC+08:00 (China time zone).</i>

3.32 Setting the Auto Sleep Function – B37

GPRS Sending	B37,X
GPRS Reply	B37,OK
Description	Whether the tracker will enter deep sleep mode automatically when it detects that the

	voltage of the external power supply is lower than the preset value (see command B38). X: The parameter value is 0 or 1 . 0 : The auto sleep function will be disabled. 1 : The auto sleep function will be enabled. The default value is 1 .
Example	
GPRS Sending	@@P27,353358017784062,B37,1*D2\r\n
GPRS Reply	\$\$P28,353358017784062,B37,OK*04\r\n

3.33 Setting the Auto Sleep Voltage – B38

GPRS Sending	B38,X
GPRS Reply	B38,OK
Description	X: The parameter value ranges from 0 to 2400 . When the parameter value is 0 , use the formula (voltage = X/10 V) to calculate the voltage. If you want to read the parameters, send B38 .
Example	
GPRS Sending	@@P30,353358017784062,B38,1180*66\r\n
GPRS Reply	\$\$P28,353358017784062,B38,OK*05\r\n

3.34 Determining Vehicle Status by ACC Status – B60

GPRS Sending	B60,X
GPRS Reply	B60,OK
Description	X = 0: function disabled (default). X = 1: function enabled. When the device detects that the ACC is off, device's longitude and latitude will not be updated, so as to avoid static drift. The first positive input of the tracker connects to engine detection by default.
Example	
GPRS Sending	@@U27,353358017784062,B60,1*D3\r\n
GPRS Reply	\$\$U28,353358017784062,B60,OK*05\r\n

3.35 Setting Event Authorization – B99

GPRS Sending	B99,<SMS>/<0>,<Phone number location>/<Authorized phone number>,<Operation code>, [Event code 1].....[Event code n] B99,<CALL>/<1>,<Phone number location>/<Authorized phone number>,<Operation code>, [Event code 1].....[Event code n] B99,<GPRS>/<2>,<Operation code>, [Event code 1].....[Event code n] 0000,B99,<CAMERA>/<3>,<Operation code>, [Event code 1].....[Event code n] B99,<BUZZER>/<4>,<Operation code>, [Event code 1].....[Event code n].
GPRS Reply	B99,<SMS>/<0>,<Phone number location>,<Authorized phone number>, [Event code 1].....[Event code n] B99,<CALL>/<1>,<Phone number location>,<Authorized phone number>, [Event code

	<pre>1].....[Event code n] B99,<GPRS>/<2>,[Event code 1].....[Event code n] B99,<CAMERA>/<3>,[Event code 1].....[Event code n] B99,<BUZZER>/<4>,[Event code 1].....[Event code n]</pre>
Description	<p>Fields SMS, CALL, CAMERA, GPRS, and BUZZER can be presented by 0–4 in decimal string. Operation codes GET, SET, ADD, and DEL can be presented by 0–3 in decimal string. These characters are not case-sensitive.</p> <p>Note: Ensure that an authorized phone number is set by using the A71 command or the parameter configuration tool before the B99 command is used to set the SMS/CALL event code. The tracker compares the authorized phone number issued by B99 with the authorized phone number (excluding +86 characters) of the tracker. If the phone numbers are the same, the new event code will be stored. If the phone numbers are inconsistent, an error SMS will be sent.</p>
Example	
GPRS Sending	<code>@@B34,863070010825791,B99,gprs,get*BC\r\n</code>
GPRS Reply	<code>\$\$B33,863070010825791,B99,1,17,18*B5\r\n</code>

3.36 Setting the Sensitivity(Telephone) – BA6

GPRS Sending	BA6, X
GPRS Reply	BA6,OK
Description	<p>Parameter X: indicates the telephone detecting sensitivity. Default 4. Value range from 3~300. Decimal.</p> <p>If you want to read the parameters, send BA6.</p> <p>If the network connection is poor or parameter settings are not correct, an error code will be replied.</p>
Example	
GPRS Sending	<code>@@R27,868725036977468,BA6,4*FC\r\n</code>
GPRS Reply	<code>\$\$R28,868725036977468,BA6,OK*2B\r\n</code>

3.37 Controlling Output Status – C01

GPRS Sending	C01, <i>Speed</i> ,ABCDE
GPRS Reply	C01,OK
Description	<p>When the speed is 0, no speed limit exists. That is, when the tracker receives a command, the function will take effect immediately.</p> <p>When the speed is a value ranging from 1 to 255 (unit: km/h), set the speed limit. When the driving speed is lower than the speed limit, the function will take effect.</p> <p>A=0, close output (output 1) - open drain A=1, open output (output 1) - connect to GND A=2, remain previous status.</p> <p>B=0, close output (output 2) - open drain B=1, open output (output 2) - connect to GND</p>

	<p>B=2, remain previous status.</p> <p>C=0, close output (output 3) - open drain</p> <p>C=1, open output (output 3) - connect to GND</p> <p>C=2, remain previous status.</p> <p>D=0, close output (output 4) - open drain</p> <p>D=1, open output (output 4) - connect to GND</p> <p>D=2, remain previous status.</p> <p>E=0, close output (output 5) - open drain</p> <p>E=1, open output (output 5) - connect to GND</p> <p>E=2, remain previous status.</p>
Example	
GPRS Sending	@@M34,353358017784062,C01,20,10122*18\r\n
GPRS Reply	\$\$M28,353358017784062,C01,OK*F9\r\n

3.38 Notifying the Tracker of Sending an SMS – C02

GPRS Sending	C02, X,Phone number,Content
GPRS Reply	C02,OK
Description	<p>Used for the platform to notify the tracker of sending an SMS to a mobile phone.</p> <p>X = 0: in TEXT mode</p> <p>X = 1: in Unicode mode</p> <p>Phone number: a maximum of 16 digits</p> <p>Content: a maximum of 140 characters</p> <p>After receiving the message, the tracker sends Content information to specified phone numbers.</p>
Example	
GPRS Sending	@@f47,353358017784062,C02,0,15360853789,Meitrack*B1\r\n
GPRS Reply	\$\$f28,353358017784062,C02,OK*13\r\n

3.39 Setting a GPRS Event Transmission Mode – C03

GPRS Sending	C03, X
GPRS Reply	C03,OK
Description	<p>X = 0: automatic event report (default)</p> <p>X = 1: Before another event can be transmitted, existing event reports need to be confirmed and deleted on the server by the AFF command. Select this mode when GPRS uses UDP.</p>
Example	
GPRS Sending	@@f27,353358017784062,C03,0*E1\r\n
GPRS Reply	\$\$f28,353358017784062,C03,OK*14\r\n

3.40 Setting I/O Port Status – C08

GPRS Sending	C08,IO0:Mn,IO1:Mn,IO2:Mn,IO3:Mn,IO4:Mn
GPRS Reply	IMEI,C08,IO0:Mn,IO1:Mn,IO2:Mn,IO3:Mn,IO4:Mn
Description	<ol style="list-style-type: none"> IO0, IO1, IO2, IO3, and IO4 indicate I/O ports. IO0: open collector by default (yellow cable) IO1: 1-Wire interface by default (green cable) IO2: negative input by default (grey cable) IO3: positive input by default (white cable) IO4: AD input by default (blue cable) Mn indicates the I/O port status. The parameter value is as follows: 0: low trigger 1: high trigger 2: AD input 4: open collector 5: low output 6: PWM output 8: 1-Wire You can set one or multiple input ports simultaneously. The command 0000,C08 is used to read I/O port parameters. Note: <ol style="list-style-type: none"> IO0: Mn parameter value is 4, 5, or 6. IO1: Mn parameter value is 0, 4, 5, or 8. IO2: Mn parameter value is 0, 1, or 2. IO3: Mn parameter value is 0, 1, or 2. IO4: Mn parameter value is 0, 1, or 2.
Applicable Model	T366/T366G
Example	
GPRS Sending	@@f31,353358017784062,C08,IO1:5*E9\r\n
GPRS Reply	\$\$f55,353358017784062,C08,IO0:5,IO1:5,IO2:2,IO3:2,IO4:1*42\r\n

3.41 Registering a Temperature Sensor Number – C40

GPRS Sending	C40,SN1 & number 1,SN2 & number 2,...,SNn & number n
GPRS Reply	C40,SN1 & number 1 & result, SN2 & number 2 & result,...SNn & number n & result
Description	<p>Commands C40 to C46 are used to read or set a temperature sensor.</p> <p>Installation steps:</p> <ol style="list-style-type: none"> Check whether the temperature sensor number in AAA GPRS data is 0. If the number is 0, the temperature sensor is not numbered. Then send the C42 command to read the mappings of sensor SNs and numbers. Use the C40 command to index all sensors and bind information in the database, such as the IMEI number, SN, number, and customized name. If a high or low temperature alert is required, send the C43 command to set the

	<p>temperature value and customize a name. You are advised to use the installation path as the name and save the name to the database.</p> <p>5) If the sensor is pulled out or replaced when the device is online, use the C46 command to check the sensor. If data is inconsistent, use the C40 and C43 commands to set data.</p> <p>The device uploads current temperature data by the AAA event. If the number in temperature data is 0, the temperature sensor is not registered. The platform automatically sends the C42 command to obtain the temperature sensor SN and number list. Find out the sensor whose number is 0, and register it.</p> <p>n: The maximum value is 8.</p> <p>SN: unique number to identify a temperature sensor. Eight bytes. Hexadecimal string. The SN is displayed on the platform like 28 1B D5 23 04 00 00 57, which is the same as that on the sensor label.</p> <p>Number: one byte. Hexadecimal. The value ranges from 1 to 254.</p> <p>Registration result: 0x01, 0x02, 0x03, and 0x04</p> <p>0x01: The registration is successful.</p> <p>0x02: The number or SN already exists.</p> <p>0x03: All sensors are registered.</p> <p>0x04: Registration failed. Hexadecimal.</p>
Example (ASCII is used to display examples because hexadecimal characters cannot be displayed.)	
GPRS Sending	@@q35,012896001078259,C40,(1BD5#040000W02*50\r\n
GPRS Reply	\$\$q36,012896001078259,C40,(1BD5#040000W0201*1B \r\n

3.42 Deleting a Registered Temperature Sensor – C41

GPRS Sending	C41,Number 1,Number 2,...Number n
GPRS Reply	C41,Number 1,Result,Number 2,Result,...Number n,Result
Description	<p>Number: indicates the registered sensor number; hexadecimal. The value ranges from 1 to 254.</p> <p>Result: Decimal. 1 indicates deletion succeeded. 2 indicates that the number does not exist. 3 indicates deletion failed.</p> <p>To delete all registered temperature sensors, send command C41 only. If deletion is successful, OK is returned. If not, Error is returned.</p>
Example	
GPRS Sending	@@n28,012896001078259,C41,01*19\r\n
GPRS Reply	\$\$n30,012896001078259,C41,01,1*37\r\n

3.43 Reading the Temperature Sensor SN and Number – C42

GPRS Sending	C42
GPRS Reply	C42,SN1 and number 1,SN2 and number 2,...SNn and number n
Description	<p>SNn: indicates the n(th) sensor SN, and has eight bytes in hexadecimal format.</p> <p>Number n: indicates the n(th) sensor number, and has one byte in hexadecimal format.</p>

	The value ranges from 0 to 255. If the value is 0 , the temperature sensor is not registered.
Example (ASCII is used to display examples because hexadecimal characters cannot be displayed.)	
GPRS Sending	@@m25,012896001078259,C42*89\r\n
GPRS Reply	\$\$t45,012896001078259,C42,(B4v#040000R00,(1BD5#040000W00*13\r\n

3.44 Setting the Temperature Threshold and Logical Name – C43

GPRS Sending	<i>C43,Number 1/SN1/High temperature value 1/Low temperature value 1/High temperature alert 1/Low temperature alert 1/Logical name 1/...Number n/SNn/High temperature value n/Low temperature value n/High temperature alert 1/Low temperature alert 1/Logical name n</i>
GPRS Reply	<i>C43,Number 1/Result 1/Number 2/Result 2.../Number n/Result n</i>
Description	<p>n: The maximum value is 8.</p> <p>Number: one byte in hexadecimal format.</p> <p>SN: indicates the temperature sensor SN, and has eight bytes in hexadecimal format.</p> <p>High/Low temperature value: two bytes in hexadecimal format. The first byte is the integer part. When the high bit is 1, the first byte is a negative integer. When the high bit is 0, the first byte is a positive integer. The second byte is the decimal part.</p> <p>High temperature alert: one byte in hexadecimal format.</p> <p>Low temperature alert: one byte in hexadecimal format.</p> <p>Logical name (customized name): 16 bytes in hexadecimal format. If the name length is less than 16 bytes, add 0x00. There are 15 English characters, and # is located at the end of English characters to distinguish the Unicode and English characters. A maximum of eight Chinese characters can be supported. Chinese characters must be the Unicode.</p> <p>Result: one byte in hexadecimal format. 0x01 indicates setting succeeded. 0x02 indicates that the number is not located. 0x03 indicates that setting failed due to wrong parameters.</p> <p>Note: Separators (/) are not required between parameters.</p>
Example (ASCII is used to display examples because hexadecimal characters cannot be displayed.)	
GPRS Sending	@@o57,012896001078259,C43,01(1BD5#040000W<0005000101T1#00000000000000000000000000*3F
GPRS Reply	\$\$o28,012896001078259,C43,0101*85

3.45 Reading Temperature Sensor Parameters – C44

GPRS Sending	C44
GPRS Reply	<i>C44,Number 1/SN1/High temperature value 1/Low temperature value 1/High temperature alert 1/Low temperature alert 1/Logical name 1/...Number n/SNn/High temperature value n/Low temperature value n/High temperature alert 1/Low temperature alert 1/Logical name n</i>
Description	<p>n: The maximum value is 8.</p> <p>Number: one byte in hexadecimal format.</p> <p>SN: indicates the temperature sensor SN, and has eight bytes in hexadecimal format.</p>

	<p>Alert percentage upper limit: When the value is 0, the alert will be cleared. When the value is not 0, GPRS and SMS event flags will take effect automatically. When the fuel percentage is higher than or equal to the value, an alert is generated, and the alert event code is 52.</p> <p>Alert percentage lower limit: When the value is 0, the alert will be cleared. When the value is not 0, GPRS and SMS event flags will take effect automatically. When the fuel percentage is lower than or equal to the value, an alert is generated, and the alert event code is 53.</p> <p>If you want to modify a parameter, other parameters need to be left blank and separators (,) must be remained. If you only send C47, all parameter values will be initialized to 0. All the parameter values are decimal characters.</p>
Example	
GPRS Sending	@@i33,012896001078259,C47,2,80,20*09\r\n
GPRS Reply	\$\$i28,012896001078259,C47,ok*5B\r\n

3.48 Reading Fuel Parameters – C48

GPRS Sending	C48
GPRS Reply	C48,Sensor type,Alert percentage upper limit,Alert percentage lower limit
Description	The format of returned parameters is the same as that of the C47 command. All the parameter values are decimal characters.
Example	
GPRS Sending	@@i25,012896001078259,C48*8B\r\n
GPRS Reply	\$\$i33,012896001078259,C48,2,80,20*D2\r\n

3.49 Transparently Transmitting Data over the Serial Port – C61

GPRS Sending	C61,Server date & time,Config,Interface device No.,Data packet
GPRS Reply	C61,GPS date & time,Interface device No.,<Data packet>/<Error code>
Description	<p>Interface device No.: contains 1 byte; hexadecimal.</p> <p>Server date & time: indicates the date and time of the server; 14 characters. For example, 20121114235959.</p> <p>GPS date & time: indicates the date and time of the tracker; 14 characters. For example, 20121114235959.</p> <p>Config: Reserved value for later use.</p> <p>Interface device No.: The default value is 2.</p> <p>Data packet: at most 512 bytes; only support GPRS.</p> <p>Note: When the tracker receives data from a peripheral, data packets will be uploaded. If data packets are not detected from a peripheral, an error code will be sent.</p>

3.50 Setting the GSM Jamming Detection Function – C85

GPRS Sending	C85,X,Y									
GPRS Reply	C85, OK									
Description	<p>X: The parameter value is 0 or 1. 0: function disabled (default). 1: function enabled.</p> <p>Y: The parameter value ranges from 0 to 9999. When input 1 is triggered in ACC ON state and GSM jamming lasts Y minutes, an alert will be generated and output 1 will be activated. When the parameter value is 0, an alert will be generated and output 1 will be activated immediately.</p> <p>If you want to read the parameters, send C85.</p> <p>Note:</p> <table border="1"> <thead> <tr> <th>GSM jamming for Y mins</th> <th>ACC ON</th> <th>ACC OFF</th> </tr> </thead> <tbody> <tr> <td>GPS valid & speed ≤ 20 km/h</td> <td>Output 1 (fuel/power cut-off) will be triggered immediately, and a GSM jamming event will be generated.</td> <td>Output 1 (fuel/power cut-off) will be triggered immediately, and a GSM jamming event will be generated.</td> </tr> <tr> <td>GPS invalid</td> <td>Output 1 will be triggered for 1 second and then will recover to the inactive state. The action will be cycled every 5 seconds until the tracker detects that the ACC is off for more than 10 consecutive seconds. Then output 1 will be triggered all the time and a GSM jamming event will be generated.</td> <td>The tracker detects that the ACC is off for more than 10 consecutive seconds. Then output 1 will be triggered all the time and a GSM jamming event will be generated.</td> </tr> </tbody> </table> <p>If a driver can not drive due to GSM jamming, he or she can activate output 1 by triggering input 1 for 5 times within 1 minute.</p>	GSM jamming for Y mins	ACC ON	ACC OFF	GPS valid & speed ≤ 20 km/h	Output 1 (fuel/power cut-off) will be triggered immediately, and a GSM jamming event will be generated.	Output 1 (fuel/power cut-off) will be triggered immediately, and a GSM jamming event will be generated.	GPS invalid	Output 1 will be triggered for 1 second and then will recover to the inactive state. The action will be cycled every 5 seconds until the tracker detects that the ACC is off for more than 10 consecutive seconds. Then output 1 will be triggered all the time and a GSM jamming event will be generated.	The tracker detects that the ACC is off for more than 10 consecutive seconds. Then output 1 will be triggered all the time and a GSM jamming event will be generated.
GSM jamming for Y mins	ACC ON	ACC OFF								
GPS valid & speed ≤ 20 km/h	Output 1 (fuel/power cut-off) will be triggered immediately, and a GSM jamming event will be generated.	Output 1 (fuel/power cut-off) will be triggered immediately, and a GSM jamming event will be generated.								
GPS invalid	Output 1 will be triggered for 1 second and then will recover to the inactive state. The action will be cycled every 5 seconds until the tracker detects that the ACC is off for more than 10 consecutive seconds. Then output 1 will be triggered all the time and a GSM jamming event will be generated.	The tracker detects that the ACC is off for more than 10 consecutive seconds. Then output 1 will be triggered all the time and a GSM jamming event will be generated.								
Example										
GPRS Sending	@@f29,353358017784062,C85,1,5*4F\r\n									
GPRS Reply	\$\$f28,353358017784062,C85,OK*1E\r\n									

3.51 Setting the Driver Fatigue Function – C90

GPRS Sending	C90,A,B,C,D,E
GPRS Reply	C90,OK
Description	<p>1. Parameter A: indicates the alert volume. The parameter value is 0, 1, 2, and 225. Decimal.</p> <p>0: No sound. 1: Medium volume. 2: High volume. 225: reserved for DIP switches.</p>

	<p>Parameter B, C, D, and E: indicates an alert. Decimal.</p> <p>B: Absence alert. 0: function disabled. 1: function enabled.</p> <p>C: Distraction alert. 0: function disabled. 1: function enabled.</p> <p>D: Smoking alert. 0: function disabled. 1: function enabled.</p> <p>E: On Phone Call alert. 0: function disabled. 1: function enabled.</p> <p>2. If you want to read the parameters, send C90.</p> <p>3. Parameter settings must be complete.</p> <p>If the network connection is poor or parameter settings are not correct, an error code will be replied.</p>
Example	
GPRS Sending	@@R35,868725036977468,C90,2,1,1,1,1*60\r\n
GPRS Reply	\$\$R28,868725036977468,C90,OK*1E\r\n

3.52 Obtaining a Picture – D00

GPRS Sending	D00, <i>File name</i> , <i>Picture data packet start number</i>
GPRS Reply	D00, <i>File name</i> , <i>Number of picture data packets</i> , <i>Current picture data packet number</i> , <i>Picture data</i>
Description	<p>After obtaining the picture list by D01 command, you can run the D00 command to obtain a picture from the tracker.</p> <p>File name: indicates the name of a picture got from the tracker's memory card. Each picture has a unique file name.</p> <p>Picture data packet start number: indicates the start sequence number of a picture package. A picture can be divided into multiple packages. The minimum value is 0, indicating that you read the picture from the first picture package.</p> <p>Number of picture data packets: indicates the number of packets of a picture. The minimum number is 1.</p> <p>Current picture data packet number: indicates the number of a picture packet that is sending.</p> <p>Picture data: indicates the raw data of a picture; hexadecimal. After all picture data is obtained, a picture will form automatically on the server.</p> <p>Note: When the tracker receives the D00 command, 8 picture packets will be uploaded consecutively. After 2 seconds, the server will send the D00 command to obtain picture data packets from the ninth picture data packet. The actions will be cycled until all picture data packets are uploaded.</p>
Example	
GPRS Sending	@@O48,353358017784062,D00,0215080432_C2E03.jpg,0*DB\r\n
GPRS Reply	The example cannot be displayed because of hexadecimal characters. Please do a test based on actual condions.

3.53 Obtaining the Picture List – D01

GPRS Sending	D01, <i>Picture data packet start number</i>
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GPRS Reply	D01, <i>Number of picture data packets,Current picture data packet number,Picture name (1) Picture name (2) ... Picture name (n) </i>
Description	<p>Picture name (n): indicates picture names, which are separated by .</p> <p>Picture data packet start number: indicates the start sequence number of a picture list. The minimum number is 0. For example, when the value is 0, obtain the picture list from the first picture package. When the value is 4, obtain the picture list from the fifth picture package</p> <p>Number of picture data packets: indicates the number of packets of a picture in the tracker's memory card. The minimum number is 0.</p>
Example	
GPRS Sending	@@A27,353358017784062,D01,0*BB\r\n
GPRS Reply	\$\$A480,353358017784062,D01,3,0,0506162517_C1E03.jpg 0506162517_C1E11.jpg 0506162624_C1E03.jpg 0506162630_C1E11.jpg 0506162720_C1E03.jpg 0506162721_C1E03.jpg 0215080547_C1E03.jpg 0215080547_C1E11.jpg 0215080626_C1E03.jpg 0215080626_C1E11.jpg 0215080827_C1E03.jpg 0215080827_C1E11.jpg 0215080850_C1E03.jpg 0215080850_C1E11.jpg 0507145426_C1E03.jpg 0507145426_C1E11.jpg 0507145512_C2E03.jpg 0507145512_C2E11.jpg 0215080050_C3E03.jpg 0215080050_C3E11.jpg 0215080459_C3E03.jpg 021508050*41\r\n

3.54 Deleting a Picture – D02

GPRS Sending	D02, <i>Picture name (1) Picture name (2) ... Picture name (n) </i>
GPRS Reply	D02,OK
Description	Picture name (n): indicates the name of the picture to be deleted. Multiple pictures can be deleted simultaneously. Picture names are separated by .
Example	
GPRS Sending	@@E110,353358017784062,D02,0506162517_C1E03.jpg 0506162517_C1E11.jpg 0506162624_C1E03.jpg 0506162630_C1E11.jpg *4E\r\n
GPRS Reply	\$\$F28,353358017784062,D02,OK*F4\r\n

3.55 Taking Photos on Demand – D03

GPRS Sending	D03, <i>Camera number,Picture name</i>
GPRS Reply	D03,OK
Description	<p>Camera number: indicates the number of a camera connected to the tracker. The minimum value is 1, indicating the first camera. The maximum value depends on the number of cameras connected to the tracker. In general, the maximum value is 2.</p> <p>Picture name: indicates the name of a picture.</p>
Example	
GPRS Sending	@@D46,353358017784062,D03,1,camera_picture.jpg*21\r\n
GPRS Reply	\$\$D28,353358017784062,D03,OK*F3\r\n

3.56 Authorizing an iButton Key – D10

GPRS Sending	D10,iButton(1),iButton(2),...,iButton(n)
GPRS Reply	D10,OK
Description	iButton (n): indicates the authorized iButton ID number. The value ranges from 1 to 4294967295. Decimal. A maximum of 50 iButton keys can be authorized at a time.
Example	
GPRS Sending	@@f43,353358017784062,D10,13737431,13737461*17\r\n
GPRS Reply	\$\$f28,353358017784062,D10,OK*13\r\n

3.57 Authorizing iButton Keys Cards in Batches – D11

GPRS Sending	D11,iButton start number,n
GPRS Reply	D11,OK
Description	iButton start number: The value ranges from 1 to 4294967295. Decimal. n: indicates the number of batch-authorized iButton keys. Decimal. The maximum value is 128 .
Example	
GPRS Sending	@@e36,353358017784062,D11,13737431,1*AA\r\n
GPRS Reply	\$\$e28,353358017784062,D11,OK*13\r\n

3.58 Checking iButton Authorization – D12

GPRS Sending	D12,iButton
GPRS Reply	D12,n
Description	iButton: ranges from 1 to 4294967295. Decimal. n: When n is 0, the iButton key is not authorized.
Example	
GPRS Sending	@@C34,353358017784062,D12,13737431*2A\r\n
GPRS Reply	\$\$C27,353358017784062,D12,0*87\r\n

3.59 Reading an Authorized iButton Key – D13

GPRS Sending	D13,iButton packet start number
GPRS Reply	D13,Number of iButton packets,Current iButton packet number,iButton (1)iButton (2)...iButton(n)
Description	iButton packet start number: indicates the start sequence number of the iButton packet. The minimum value is 0. For example, when the value is 0, you can obtain the package list from the first iButton packet. When the value is 4, you obtain the package list from the fifth iButton packet. Number of iButton packets: indicates the number of authorized iButton packets. One

	iButton packet contains a maximum of 100 iButton IDnumbers. The minimum value is 0 . iButton (n): has eight hexadecimal characters.
Example	
GPRS Sending	@@w27,353358017784062,D13,0*F4\r\n
GPRS Reply	The example cannot be displayed because of hexadecimal characters.

3.60 Deleting an Authorized iButton Key – D14

GPRS Sending	D14,iButton(1),iButton(2),...,iButton(n)
GPRS Reply	D14,OK
Description	iButton (n): indicates the iButton ID to be deleted. The value ranges from 1 to 4294967295. Decimal. A maximum of 50 iButton keys can be deleted at a time. One SMS (including protocols) cannot exceed 140 bytes.
Example	
GPRS Sending	@@Q34,353358017784062,D14,13723455*3B\r\n
GPRS Reply	\$\$Q28,353358017784062,D14,OK*02\r\n

3.61 Deleting Authorized iButton Keys in Batches – D15

GPRS Sending	D15,iButton start number,n
GPRS Reply	D15,OK
Description	iButton start number: ranges from 1 to 4294967295. Decimal. n: indicates the number of iButton keys to be deleted in batches. Decimal. The maximum value is 128 . When the start number is a value ranging from 1 to 4294967295 and n is greater than or equal to 65536, all authorized numbers will be deleted.
Example	
GPRS Sending	@@K36,353358017784062,D15,13723455,3*97\r\n
GPRS Reply	\$\$K28,353358017784062,D15,OK*FD\r\n

3.62 Checking the Checksum of the Authorized iButton ID Database – D16

GPRS Sending	D16
GPRS Reply	D15,XOR
Description	This command is used to check whether the existing authorized iButton ID database is consistent with that recorded in the server. When the tracker receives the D16 command, the XOR result of all authorized iButton ID numbers is regarded as the database checksum for responding. After the server receives the checksum, compare with the XOR result of all authorized iButton ID numbers recorded in the server. If the result is the same, the existing authorized iButton ID database is consistent with that recorded in the server. Otherwise, data errors occur in the authorized

	iButton ID database.
Example	
GPRS Sending	@@u25,353358017784062,D16*97\r\n
GPRS Reply	\$\$u28,353358017784062,D16,18*F7\r\n

3.63 Setting the Maintenance Mileage – D65

GPRS Sending	D65,Mileage point 1<,Mileage point 2><,Mileage point 3><,Mileage point 4><,Mileage point 5><,Mileage point 6><,Mileage point 7><,Mileage point 8>
GPRS Reply	D34,OK
Description	<p>Set 8 mileage points. Otherwise, the function will be unavailable.</p> <p>Mileage point: The parameter value ranges from 0 to 4294967295. Unit: meter.</p> <p>Note: When the tracker detects that the mileage nearly reaches the preset value, a maintenance mileage reminder will be generated in advance. Users will be alerted by default when the mileage is 300 km ahead of the preset value.</p> <p>If a maintenance time alert is generated in advance, the maintenance mileage will skip to the next one automatically.</p>
Applicable Model	T366/T366G
Example	
GPRS Sending	@@u78,353358017784062,D65,50000,60000,70000,80000,90000,100000,1100000,1200000*9C\r\n
GPRS Reply	\$\$u28,353358017784062,D65,OK*28\r\n

3.64 Setting Maintenance Time – D66

GPRS Sending	D66,Time point 1<,Time point 2><,Time point 3><,Time point 4><,Time point 5><,Time point 6><,Time point 7><,Time point 8>
GPRS Reply	D66,OK
Description	<p>Set 8 time points. Otherwise, the function will be unavailable.</p> <p>Time point: The parameter value ranges from 0 to 4294967295. Unit: second.</p> <p>Note: When the tracker detects that the time nearly reaches the preset value, a maintenance time reminder will be generated in advance. Users will be alerted by default when the time is 7 days ahead of the preset value.</p> <p>If a maintenance mileage alert is generated in advance, the maintenance time will skip to the next one automatically.</p>
Applicable Model	T366/T366G
Example	
GPRS Sending	@@u78,353358017784062,D66,50000,60000,70000,80000,90000,100000,1100000,1200000*9D\r\n
GPRS Reply	\$\$u28,353358017784062,D66,OK*2D\r\n

3.65 Setting GPS Data Filtering – D71

GPRS Sending	D71,X,Y1,Y2,Y3,Y4
GPRS Reply	D71,OK/<Error code>
Description	<p>X: Whether to enable the GPS data filtering function. 1: Enable the function. 0: Disable the function (default).</p> <p>Y1: indicates the minimum value of the driving speed. Value range: 0–999 km/h.</p> <p>Y2: indicates the maximum value of the driving speed. Value range: 0–999 km/h.</p> <p>Y3: indicates the number of satellites. Value range: 0–99. When the number of satellites is greater than Y3, GPS data will be updated.</p> <p>Y4: indicates the positioning accuracy. Unit: x10. Value range: 0–999. When the positioning accuracy value is less than Y4, GPS data will be updated.</p> <p>Note: When the GPS data filtering function is enabled, if all conditions of Y1, Y2, Y3 and Y4 are met, GPS data will be updated.</p>
Applicable Model	T366/T366G
Example	
GPRS Sending	@@I40,865328022075252,0D71,1,5,255,4,0.4*38\r\n
GPRS Reply	\$\$I28,865328022075252,D71,OK*F8\r\n

3.66 Setting Output Triggering – D72

GPRS Sending	D72,X,Y1,Y2,Y3,Y4
GPRS Reply	D72,OK/<Error code>
Description	<p>X: Select an output port. 1: output 1. 2: output 2.</p> <p>Y1: indicates the output time when an event is triggered. Unit: 10 ms. Value range: 0–4294967295.</p> <p>Y2: Value: 0, 1, and 2.</p> <ul style="list-style-type: none"> ● 0: Output high level. ● 1: Output low level (default). ● 2: Output PWM wave. <p>Y3: indicates the PWM duty cycle. Value range: 0–100.</p> <p>Y4: indicates the PWM period. Unit: μs. Value range: 2000–50000000.</p>
Applicable Model	T366/T366G
Example	
GPRS Sending	@@s42,865328022075252,0D72,1,100,0,0,10000*B0\r\n
GPRS Reply	\$\$s28,865328022075252,D72,OK*23\r\n

3.67 Allocating GPRS Cache and GPS LOG Storage Space – D73

GPRS Sending	D73,X,Y
GPRS Reply	D73,OK/<Error code>
Description	<p>X: Set the storage percentage of GPRS cache. Decimal in percentage.</p> <p>Y: Set the storage percentage of GPS logs. Decimal in percentage.</p>

	The sum of X and Y must be 100.
Applicable Model	T366/T366G
Example	
GPRS Sending	@@Q31,865328022075252,D73,50,50*90\r\n
GPRS Reply	\$\$Q28,865328022075252,D73,OK*02\r\n

3.68 Setting Harsh Acceleration and Harsh Braking Parameters – D79

GPRS Sending	D79,X,Y
GPRS Reply	D79,OK/<Error code>
Description	<p>X: indicates the harsh acceleration alert value. Decimal; unit: mG; value range: [90...1000]; default value: 150.</p> <p>Y: indicates the harsh braking alert value. Decimal; unit: mG; value range: [-1500...-100]; default value: -180.</p> <p>Harsh acceleration level:</p> <ul style="list-style-type: none"> ● Level 1: 150 ● Level 2: 170 ● Level 3: 200 ● Level 4: 230 ● Level 5: 250 ● Level 6: 280 ● Level 7: 300 ● Level 8: 320 ● Level 9: 350 ● Level 10: 400 <p>Harsh braking level:</p> <ul style="list-style-type: none"> ● Level 1: -180 ● Level 2: -200 ● Level 3: -250 ● Level 4: -300 ● Level 5: -350 ● Level 6: -400 ● Level 7: -450 ● Level 8: -500 ● Level 9: -550 ● Level 10: -600 <p>The higher the level is, the lower the alert probability is.</p> <p>Note: When you install the tracker, the direction and angle of the tracker and vehicle should be consistent. And ensure that the tracker is installed firmly.</p>
Example	
GPRS Sending	@@Q34,865328022075252,D79,150,-180*2B\r\n
GPRS Reply	\$\$Q28,865328022075252,D79,OK*08\r\n

3.69 Setting Harsh Cornering Parameters – D80

GPRS Sending	D80,X1,X2,X3,X4,Y1,Y2,Y3,Y4
GPRS Reply	D80,OK/<Error code>
Description	<p>X: indicates the Sharp Left Turn parameter.</p> <p>Y: indicates the Sharp Right Turn parameter.</p> <p>X1 or Y1: indicates the acceleration value while accelerating. Unit: mG; value range: [10...3000].</p> <p>X2 or Y2: indicates the time while accelerating. Unit: ms; value range: [10...1000].</p> <p>X3 or Y3: indicates the acceleration value while braking. Unit: mG; value range: [-3000...-10].</p> <p>X4 or Y4: indicates the time while braking. Unit: ms; value range: [10...1000].</p> <p>To set Sharp Left Turn and Sharp Right Turn alerts, you only need to set the parameter values of X3 and Y3, and other parameter values remain unchanged (X1 & Y1: 150; X2 & Y2: 80; X4 & Y4: 80). The levels of X3 and Y3 parameters are as follows:</p> <ul style="list-style-type: none"> ● Level 1: -110 ● Level 2: -150 ● Level 3: -200 ● Level 4: -250 ● Level 5: -280 ● Level 6: -310 ● Level 7: -350 ● Level 8: -390 ● Level 9: -450 ● Level 10: -500 <p>The higher the level is, the lower the alert probability is.</p> <p>Note: When you install the tracker, the direction and angle of the tracker and vehicle should be consistent. And ensure that the tracker is installed firmly.</p>
Example	
GPRS Sending	@@Q55,865328022075252,D80,150,80,-110,80,150,80,-110,80*1C\r\n
GPRS Reply	\$\$Q28,865328022075252,D80,OK*00\r\n

3.70 Reading Device's Firmware Version and SN – E91

GPRS Sending	E91
GPRS Reply	E91,Version,SN
Description	Read the tracker's firmware version and SN.
Example	
GPRS Sending	@@W25,353358017784062,E91*7D\r\n
GPRS Reply	\$\$W38,353358017784062,FWV1.00,12345678*1C\r\n

3.71 Restarting the GSM and GPS Modules – F00

GPRS Sending	F01,GSM,GPS
GPRS Reply	F01,OK
Description	GSM: The parameter value is 0 or 1 . 0 : no action. 1 : Restart the GSM module. GPS: The parameter value is 0 or 1 . 0 : no action. 1 : Restart the GPS module.
Example	
GPRS Sending	@@j29,353358017784062,F00,1,1*45\r\n
GPRS Reply	\$\$j28,353358017784062,F00,OK*18\r\n

3.72 Restarting the GSM Module – F01

GPRS Sending	F01
GPRS Reply	F01,OK
Description	Restart the GSM module.
Example	
GPRS Sending	@@j25,353358017784062,F01*88\r\n
GPRS Reply	\$\$j28,353358017784062,F01,OK*19\r\n

3.73 Restarting the GPS Module – F02

GPRS Sending	F02
GPRS Reply	F02,OK
Description	Restart the GPS module.
Example	
GPRS Sending	@@Z25,353358017784062,F02*79\r\n
GPRS Reply	\$\$Z28,353358017784062,F02,OK*0A\r\n

3.74 Setting the Mileage and Run Time – F08

GPRS Sending	F08, <i>Run time,Mileage</i>
GPRS Reply	F08,OK
Description	Run time: <ul style="list-style-type: none"> ● Value range: [0...4294967295] ● Decimal ● Unit: second If you do not want to set the parameter, leave it blank. Mileage: <ul style="list-style-type: none"> ● Value range: [0...4294967295] ● Decimal ● Unit: meter If you do not want to set the parameter, leave it blank.

Example	
GPRS Sending	@@D40,353358017784062,F08,0,4825000*51\r\n
GPRS Reply	\$\$D28,353358017784062,F08,OK*FA\r\n

3.75 Deleting SMS/GPRS Cache Data – F09

GPRS Sending	F09, <i>Number</i>
GPRS Reply	F09,OK
Description	<p>If the number is 1, SMS cache data to be sent is deleted.</p> <p>If the number is 2, GPRS cache data to be sent is deleted.</p> <p>If the number is 3, SMS and GPRS cache data to be sent is deleted.</p>
Example	
GPRS Sending	@@E27,353358017784062,F09,1*CA\r\n
GPRS Reply	\$\$E28,353358017784062,F09,OK*FC\r\n

3.76 Restoring Initial Settings – F11

GPRS Sending	F11
GPRS Reply	F11,OK
Description	Restore initial settings except the SMS password.
Example	
GPRS Sending	@@[25,353358017784062,F11*7A\r\n
GPRS Reply	\$\$[28,353358017784062,F11,OK*0B\r\n

If you have any questions, do not hesitate to email us at info@meitrack.com.