Content

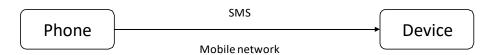
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1. Instruction list purpose

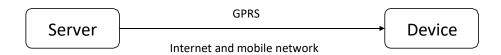
- 1. Set clear the device parameters.
- 2. Obtain device setting parameters, positioning data, and other data.
- 3. Control the hardware output of the device.
- 4. The device sends a request to the server.

2. How to use instructions

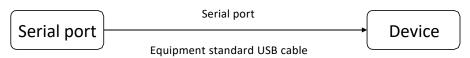
1. The user sends an SMS to the device via the mobile phone.



2. The user sends GPRS data to the device through the server.



3. The user sends data to the device through the serial port.



3 Instruction format

Instruction format refers to the instruction data format sent to the device by mobile phone, server or PC via SMS, GPRS or serial port.

3.1 \ Format 1 (single instruction format):

< Instruction start flag>< Instruction key>;< Instruction >;< Instruction end flag>

Example of SMS command in single command format: \$SMS,000000;R001;!

Single command format GPRS command example: \$GPRS,860719020009480;R001;!

Example of single command format serial port command: \$USB,000000;R001;!

3.2 \ Format 2 (multi-instruction format):

<Instruction start flag><Instruction key>;<Instruction>;<Instruction>;.....

Multiple instruction message instruction exemplary format: \$SMS,000000; R001;R002;R003;!

Multi-Instruction format GPRS command example: \$GPRS,860719020009480; R001;R002;R003;!

Multi-instruction format serial command example: \$USB,000000; R001;R002;R003;!

Project	Description					
<command flag="" start=""/>	Fixed as the character \$					
<command key=""/>	Command key head	SMS	Fixes string SMS			
	Command key content	GPRS data	Fixes string GPRS			
		Serial data	Fixes string USB			
		SMS	Device password			
		GPRS data	Device IMEI			
		Serial data	Device password			
	Example:					
	1.SMS command key SMS,0000000					
	2.GPRS data command key	GPRS,8607190200	009480			
	Serial data command key U					
;	Semicolon, separator.					
<instruction></instruction>	See the contents of the cor	mmand list (set (W), read (R), clear (C)).			
	The ellipsis indicates that n	nore <commands></commands>	can be added;			
<end flag="" instruction="" of=""></end>	Fixed as characters!					
Precautions	1.The command is not case	e sensitive;				
	2.Only the password or IMEI is correct, the command can be recognized by the device;					
			ectively reduce the number of instructions sent;			
	0 bytes;					

4. Command feedback data format

The command feedback data format refers to the feedback data format sent to the mobile phone,

server or PC via SMS, GPRS or serial port after the device receives the command.

The command feedback data format of SMS, GPRS, and serial port are all the same, the format is as follows:

<Instruction start flag><IMEI>;<Instruction feedback>;<Instruction feedback>;......<Instruction end flag>

Example 1: \$860719020009480;R001,OK,000000;!

Example 2: \$860719020009480;R001,OK,000000;R002,OK,cmnet,user,password;R003,OK,192.168.1.1,7000;!

Project	Description
<command flag="" start=""/>	Fixed as the character \$
<imei></imei>	Equipment IMEI.
;	Semicolon, separator.
<command feedback=""/>	Please refer to the instruction list (instruction response).
	Please refer to the instruction list (instruction response).
<command end="" flag=""/>	Fixed as characters
Precautions	Fixed as characters

5. Equipment query instruction

The device query instruction refers to the request instruction sent by the device to the server via GPRS, which can be used to request the basic information of the server or the parameter information set by the customer on the server for the device, and it can also be used to request the server to operate the device.

The format of the device query command is as follows:

<Instruction start flag><IMEI>;<Inquiry instruction>;<Inquiry instruction>;.....<Instruction end flag>

Example: \$860719020009480;Q030;!

project	Description
<command flag="" start=""/>	Fixed as the character \$
<imei></imei>	Equipment IMEI.
;	Semicolon, separator.
<query command=""></query>	See the contents of the command list (query (Q)).
	The ellipsis indicates that more <query commands=""> can be added.</query>
<command end="" flag=""/>	Fixed as characters!
Precautions	1. The maximum length of the device query command is 255 bytes.
	2. After the device successfully sends the query command, the server will use the setting command to
	send the information to the device or operate the device.

6. Instruction list

6.1 Command summary

serial	Keyword	Set(W),	Instruction	instruction(Black characters indicate	definition
number		read(R),	number	fixed characters, red characters	
		clear(C)		indicate non-fixed characters, <*>	
		query(Q)		indicates parameter value, semicolon is	
		options		the end of the	
	password	W		instruction) W001,<1>;	Set device password.
1		R	001	R001;	Read the device password.
-		С		C001;	Clear the device password.
	APN	W		W002,<1>,<2>,<3>;	Set APN, APN username, and APN password.
2		R	002	R002;	Read APN, APN user name, and APN password.
		С		C002;	Clear APN, APN username, and APN password.
	server	W		W003,<1>,<2>;	Set the server 1 IP or domain name and server port.
3	address 1	R	003	R003;	Read the server 1 IP or domain name and server port.
		С		C003;	Clear the server 1 IP or domain name and server port.
	Device ID	W	004	W004,<1>;	Set the device ID.
4		R		R004;	Read the device ID.
		С		C004;	Clear the device ID.
	GPRS interval	W	005	W005,<1>;	Set GPRS scheduled upload interval.
5		R		R005;	Read GPRS scheduled upload interval.
		С		C005;	Clear the GPRS scheduled upload interval.
9	GPRS mode	W	009	W009,<1>;	Set the GPRS upload mode.
9		R		R009;	Read GPRS upload mode.
		С		C009;	Clear GPRS upload mode.
	Authorizatio n number	W		W010,<1>,<2>,<3>;	Set an authorized number and the functions supported by the corresponding authorized number.
		R 010		R010,<1>;	Read an authorized number and the functions supported by the corresponding authorized number.
10			R010;	Read all authorized numbers and the functions supported by the corresponding authorized numbers.	
10			010	C010,<1>;	Clear an authorized number and the functions supported by the corresponding authorized number.
			C010;	Clear all authorized numbers and functions supported by the corresponding authorized numbers.	
	server	W		W013,<1>,<2>;	Set the server 2 IP or domain name and server port.
13	address 2	R	013	R013;	Read the server 2 IP or domain name and server port.
13		С	013	C013;	Clear the server 2 IP or domain name and server port.

	SIM card			W015,<1>,<2>;	Set to switch SIM card 1 and the corresponding APN, or SIM
	switching	W		R015;	card 2 Read switched SIM card information
15	Davisa	R	015	·	
	Device mode	W		W016,<1>;	Set the device mode.
16		R	016	R016;	Read the device mode. Clear the device mode.
		С		C016;	
	electric fence	W		W018,<1>,<2>,<3>,<4>,<5>;	Set up an electronic fence (Geo-fence).
18		R	018	R018,<1>;	Read an electronic fence (Geo-fence).
10		С	010	C018,<1>;	Clear an electronic fence (Geo-fence).
				C018;	Clear all electronic fence (Geo-fence).
	Time zone	W		W020,<1>;	Set the time zone(time zone).
20		R	020	R020;	Read the time zone(time zone).
		С		C020;	Clear the time zone(time zone).
	Data log	W			no
28		R	028	R028;	Read the number of GPRS stored data.
		С		C028;	Clear all GPRS storage data.
	Basic	W			no
29	information of	R	029	R029;	Read the basic information of the device •
	equipment	С			no
	interest			W020 (1) (2)	Cat ACDS latitude and langitude
	AGPS latitude and	W		W030,<1>,<2>;	Set AGPS latitude and longitude.
30	longitude	R	030	R030;	Read AGPS latitude and longitude.
	Motor	С		C030;	Clear AGPS latitude and longitude.
36	Motor vibration	W	036	W036,<1>;	Set the number of motor vibrations
39	WIFI switch	W		W039,<1>;	Set to turn on/off WIFI. 1 = turn on, 0 = turn off.
39		R	039	R039;	Read the WIFI switch status.
		С		C039;	Clear the WIFI status, and it will be closed after clearing.
40	WIFI /Bluetooth mode	W	040	W040,<1>;	Set the WIFI /Bluetooth mode of the device. Parameters: 1 home monitoring mode ,0normal mode ,2 Bluetooth scan mode
		R		R040;	Read the WIFI/Bluetooth mode of the device.
	WIFI base	W	042	W042,<1>,<2>,<3>;	Set the WIFI base station/Bluetooth MAC address to which the device is connected.
42	station/Blue tooth MAC	R		R042;	Read the WIFI base station/Bluetooth MAC address.
	address	С		C042;	Clear the WIFI base station/Bluetooth MAC address
		W	043	W043,<1>,<2>,<3>;	Set the alarm to play
43	Alarm play	R		R043,<1>,<2>,<3>;	Read the alarm play Settings
	related Settings	С		C043	Clear alarm playback Settings
	Function			W044,<1>,<2>;	Set the function switch and water soak interval.
44	switch	W	044	R044;	Read function switch and soaking interval time.
45	Switch voice	R	045	W045,<1>;	Set the switching voice broadcast language, 0 stands for
73	broadcast	W	045	VVO+3,\12,	Chinese, 1 for English, 2 for Spanish, 3 for Thai
	language	R		R045;	Read the speech broadcast language
	Device	W			No
50	acquisition parameters	R	050		no
	, 2. 2	С		C050;	The server sends parameters to complete.
		Q		Q050;	The device obtains parameters from the server.
	Real-time	W		W052;	Start real-time location query.
52	location	R	052		no
52	query	С	. U3Z		no
	Remote	W		W098,<1>;	Start remote upgrade (default data check method: CRC-CCITT).
98	upgrade	R		R098;	Read the remote upgrade status of the device.
		C	. 098	C098;	Stop remote upgrade.
	Factory	W			no
99	settings	R	000		no
		C	099	C099;	Clear all parameters (restore factory settings).
	Domesta		100	W100;	Restart the device remotely.
100	Remote		100		
100 Unlock	restart	W		\$ unlock:nassword:1	\$ unlock:221088:1
Unlock		VV		\$,unlock;password;!	\$,unlock;221088;! \$ lock:000000:1
Unlock Lock		VV		\$,unlock;password;! \$,lock;000000;! \$, original password; New password; !	\$,unlock;221088;! \$,lock;000000;! \$,221088;123456;!

6.2 Instruction details table

6.2.1 Password

Numbering			Instruction description	Functions and precautions	
1	Instruction	W001,<1	>;	Function: Set device password.	
	Parameter	<1>	Device password, range: 6 characters, default: 000000	When using SMS or serial port to set the	
	Example	W001,00	00000;	parameters of the device, the device password is required.	
	Reply	Success	W001,OK;	Note:	
		Fail	W001,FAIL;		
	Instruction	R001;		Function: Read the device password.	
	Parameter	No		Note:	
	Example	R001;			
	Reply	Success	R001,OK,000000;		
		Fail	R001,FAIL;		
	Instruction	C001;		Function: Clear the device password.	
	Parameter	No		Note: After clearing the password, it wil	
	Example	C001;		be restored to the default password:	
	Reply	Success	C001,OK;	000000.	
		Fail	C001,FAIL;		

6.2.2 APN

Numbering			Instruction description	Functions and precautions
2	instruction	W002,<1>,<2>,<3>;		Function: Set APN, APN user name, APN
	parameter	<1>	APN (Access Point), range: 0~29 characters.	password. When using GPRS to connect
		<2>	APN user name, range: 0~29 characters.	to the server, these parameters need to
		<3>	APN password, range: 0~29 characters.	be set.
	Example 1	W002,	cmnet, username, password;	Note: The parameter can be empty, as shown in Example 2.
	Reply 1	success	W002,OK;	Shown in Example 2.
		failure	W002,FAIL;	
	Example 2		cmnet,,; The APN username and APN password in this example are empty)	
	instruction	R002;		Function: Read APN, APN user
	parameter	no		name, APN password. Note:
	Example	R002;		Note.
	Reply	success	R002,OK,cmnet,username,password;	
		failure	R002,FAIL;	
	instruction	C002;		Function: Clear APN, APN user name, and
	parameter	no no		APN password.
	Example	C002;		Note:
	Reply	success	С002,ОК;	
		failure	C002,FAIL;	

6.2.3 Server address 1

Numbering			Instruction description	Functions and precautions	
3	instruction	W003,<	1>,<2>;	Function: Set server 1 IP or domain nam	
	parameter	<1>	Server 1 IP or domain name, range: 0~29 characters	e, server port. When using GPRS to con	
		<2>	Server 1 port, range: 0~65535	nect to the server, these parameters ne	
	Example 1	W003,23	18.133.34.184,7000;	ed to be set.	
	Reply 1	success	W003,OK;	Note:	
		failure	W003,FAIL;		
	Example 2		winmask.oicp.net,7000; n this example, the domain name and port are used as the server		
	instruction			Function: Read server 1 IP or domai	
	J	no		n name, server port. Note:	
	Example	R003;		Note.	
	Reply	success	R003,OK,218.133.34.184,7000;		
		failure	R003,FAIL;		
	instruction	C003;		Function: Clear server 1 IP or domai	
	parameter	no		n name, server port.	
	Example	C003;		Note:	
	Reply	success	C003,OK;		

		!
1	-	
	failure	COO3 EVII.
	i a i a i	C003,1 AIL,

6.2.4 Device ID

Numbering		Instruction description	Functions and precautions
4	instruction parameter Example Reply	W004,<1>; <1> Device ID, range: 0-15 characters. W004,MyDeviceID; success W004,OK; failure W004,FAIL;	Function: Set the device ID. The device ID is the identification of the device, and the server distinguishes different devices according to the device ID in the uploaded data. Note: Generally, the IMEI number of the GSM module is used as the device ID.
	instruction parameter Example Reply	R004; no R004; success R004,OK, My Device ID; failure R004,FAIL;	Function: Read the device ID. Note:
	instruction parameter Example Reply	Function: Clear the device ID. note: no C004; success C004,OK; failure C004,FAIL;	Function: Clear the device ID. Note:

6.2.5 GPRS interval

Numbering			Instruction description	Functions and precautions	
5	instruction	W005,<1	>;	Function: Set GPRS scheduled upload	
	parameter	<1>	GPRS scheduled upload interval, range: $0^{\sim}65535$, default: 0, unit: 30 seconds. (For example: set to 2, that is, the scheduled upload time interval is 60 seconds)	interval. When using GPRS to connect to the server, this parameter needs to be set.	
	Example	W005,2;		Note: When set to 0, the GPRS	
	Reply	success	W005,OK;	scheduled upload will be can celled, but	
		failure	W005,FAIL;	the device will still connect to the server, but the scheduled data will not be sent.	
		I			
	instruction	·		Function: Read GPRS scheduled upload interval.	
	parameter	no			
	Example	R005;		Note:	
	Reply	success	R005,OK,2;		
		failure	R005,FAIL;		
	instruction	C005;		Function: Clear GPRS scheduled upload	
	parameter	no		interval.	
	Example	C005;		Note: After clearing, the timed upload	
	Reply	success	C005,OK;	interval is 0.	
		failure	C005,FAIL;		

6.2.6 GPRS mode

Numbering			instruction description	Functions and precautions	
9	instruction	W009,<	1>;	Function: Set GPRS upload mode.	
	parameter ·		GPRS upload mode, range: 0~2 (0 means disable GPRS function, 1 means TCP connection, 2 means UDP connection), Default: 0	When using GPRS to connect to the server, this parameter needs to be set. Note:	
	Example	W009,1	;	When set to 0, cancel the GPRS function,	
	Reply	success	W009,OK;	otherwise the device will connect to the server.	
		failure	W009,FAIL;		
	instruction	· .		Function: Read GPRS upload mode. Note:	
	parameter				
	Example	R009;			
	Reply	success	R009,OK,1;		
		failure	R009,FAIL;		
	instruction	C009;		Function: Clear GPRS upload mode.	
	parameter	no		Note: After clearing, the GPRS upload	
	Example	C009;		mode is 0.	
	Reply	success	C009,OK;		
		failure	C009,FAIL;		

6.2.7 Authorization number

Numbering		Instruction description	Functions and precautions
10	Instruction	W010,<1>,<2>,<3>;	Function: Set an authorized number

Parameter	<1>	+	horization number serial number, range: 1~3.	and the functions supported by the
	<2>		horization number, range: 0~19 characters.	corresponding authorized number.
	<3>	A	Electronic fence function, range: 0 or 1 (0 means off, 1 means on), default: 0.	Note:
		В	Monitor function, range: 0 or 1 (0 means off, 1 means on),	
			default: 0.	
			Note: After monitoring is turned on, two-way conversation cannot be performed, and it needs to be turned off to have	
			two-way conversation, automatic answering, and manual	
			answering functions.	
		С	SOS outgoing call function, range: 0 or 1 (0 means off, 1 means on), default: 0.Function Description:	
			0: Answer the call manually, disable the SOS broadcast call function	
			1: Answer the call manually and enable the SOS broadcast call	
			function	
Example	W010,1,2	13874	557455,100;	
Reply	Success	W0:	10,OK;	
	Failure		10,FAIL;	
Note			authorization number?	
			I number is the mobile phone number set by the user and saved The authorized number can receive the device's location, alarm,	
			messages, but the non-authorized number cannot.	
	1	-	of authorized number and non-authorized number, as long as the	
	_		e instruction is correct, you can use SMS to set the parameters	
	of the de			
		_	the monitoring function, make sure that the SIM card in the	
			caller ID function. And only authorized numbers can realize the d call functions.	
	momeon	116 0111	a can ranctions.	
Instruction	R010,<1>	>;		Function: read an authorized
Parameter	<1>	Aut	horization number serial number, range: 1~3.	number and the functions
Example	R010,1;			supported by the corresponding authorized number.
Reply	Success		0,OK,13874557455,100;	Note:
	Failure	R01	0,FAIL;	Note:
Instruction	R010;			Function: Read all authorized
Parameter	No			numbers and the functions
Example	R010;			supported by the corresponding
Reply	Success		0,OK,13874557455,100,13874557456,110,13874557457,111;	authorized numbers. Note:
	Failure	R01	0,FAIL;	TVOICE.
Instruction		»:		Function: Clear an authorized
Parameter	C010,<1>			Lacras la sur sus al Albas from satisficas
	<1> C010,<1>		horization number serial number, range: 1~3.	number and the functions
Example			horization number serial number, range: 1~3.	supported by the corresponding
Example Reply	<1>	Aut	horization number serial number, range: 1~3. 0,OK;	supported by the corresponding authorized number.
<u>.</u>	<1> C010,1;	Aut		supported by the corresponding
Reply	<1> C010,1; Success Failure	Aut	0,ОК;	supported by the corresponding authorized number. Note:
<u>.</u>	<1>C010,1; Success Failure	Aut	0,ОК;	supported by the corresponding authorized number. Note: Function: Clear all authorized
Reply Instruction	<1> C010,1; Success Failure	Aut	0,ОК;	supported by the corresponding authorized number. Note:
Reply Instruction Parameter	<1>C010,1; Success Failure	C01	0,ОК;	supported by the corresponding authorized number. Note: Function: Clear all authorized numbers and functions supported

6.2.8 Server address 2

Numbering		Instruction description		Functions and precautions		
13	Instruction	W013,<1>,<2>;		Function: Set server 2 IP or domain		
	Parameter	<1>	Server 2 IP or domain name, range: 0~29 characters	name, server port. When using		
		<2>	Server 2 port, range: 0~65535	GPRS to connect to the server, these		
	Example 1	W013,218	.133.34.184,7000;	parameters need to be set.		
	Reply 1	Success	W013,OK;	Note:		
		Failure	W013,FAIL;			
	Example 2	W013, twi	nmask.oicp.net,7000;			
		(Note: In t	his example, the domain name and port are used as the server			
		range)				
	Instruction	R013;		Function: Read server 2 IP or		
	Parameter	No		domain name, server port.		
	Example	R013;		Note:		
	Reply	Success	R013,OK,218.133.34.184,7000;			
		Failure	R013,FAIL;			
	Instruction	C013;		Function: Clear server 2 IP or		
	Parameter	No		domain name, server port.		
	Example	C013;		Note:		
	Reply	Success	C013,OK;			
		Failure	C013,FAIL;			

6.2.9 SIM card switching

Numbering			Instruction description	Functions and precautions
15	Instruction	W015,<1	>,<2>;	Function: switch SIM card.
	Parameter	<1>	SIM card switching, range: 1, 2 (1 is normal SIM card, 2 is e-SIM card), default: 1	Note: The e-SIM APN of switch card 2 is empty by default, and the APN of
		<2>	APN (Access Point), range: 0~29 characters.	the local operator needs to be filled in
	Example	W015,1,0	cmnet;	when switching card 1
	Reply	Success	W015,OK;	
		Failure	W015,FAIL;	
	Instruction	R015;		Function: read SIM card information Note:
	Parameter	No		
	Example	R015;		
	Reply	Success	R015,OK,1,cmnet;	
		Failure	R015,FAIL;	

6.2.10 Device mode

Numbering			Instruction description	Functions and precautions		
16	Instruction	W016,<1>;		Function: Set the device mode.		
	Parameter	<1>	Device mode, range: 0~2 (0 means personal mode, 1 means smart mode, 2 means car mode), default: 1.	Note:		
	Example	W016,1;				
	Reply	Success	W016,OK;			
		Failure	W016,FAIL;			
	Note	1. What is	the device mode?			
		There are	three device modes: personal mode, smart mode, and car mode.			
		In person	al mode, GPS will automatically turn off regardless of whether			
		the device	e is in motion or not. In smart mode, GPS will automatically turn			
		off when	the device is stationary.			
		In car mo	de, GPS will not turn off regardless of whether the device is in			
		motion or	not.			
		2. Compa	rison of standby time in different device modes.			
		Standby t	ime from long to short: personal mode, smart mode, car mode.			
	Instruction	R016;		Function: Read the device mode. Note:		
	Parameter	No				
	Example	R016;				
	Reply	Success	R016,OK,1;			
		Failure	R016,FAIL;			
	instruction	C016;		Function: Clear the device mode.		
	parameter	no		Note: After clearing, the device mode		
	Example	C016;		is 0; after restoring the factory		
	Reply	success	C016,OK;	settings, the device mode is 1;		
		failure	C016,FAIL;			

6.2.11 Electric fence

Numbering			Functions and precautions					
18	Instruction	W018,<1	>,<2>,<3>,<4>,<5>;	Function: Set up an electronic fence.				
	Parameter	<1>	The serial number of tl	he electronic fence, range: 1~5.	Note: The latitude is a positive			
		<2>	The name of the electr	onic fence, range: 0-9 characters.	number, which means north latitude			
		<3>	Latitude of the center 90.00000000~90.0000	point of the electronic fence, range: - 0000, unit: degree.	(N), and the latitude is a negative number, which means south latitude			
		<4>	Longitude of the cente 180.00000000~180.00	r point of the electronic fence, range: - 000000, unit: degree.	(S); longitude is a positive number, which means east longitude (E), and			
		<5>	The electronic fence is meter.	semi-long, range: 0.0~1.79E+308, unit:	longitude is a negative number, which means west longitude (W).			
	Example 1	W018,1,I	Home,-22.12345678,114	.12345678,500;				
	Reply 1	Success	W018,OK;					
		Failure	W018,FAIL;		1			
	Example 2	W018,2,9	School, , ,300;					
		(Note: W	hen setting the electron					
		longitude	e, that is, the latitude and	d longitude is empty, the device will				
		automati	cally start GPS to obtain	the latest latitude and longitude as the				
		longitude	and latitude of the cent	ter point)				
	Reply 2	Set succe	essfully	W018,OK,geo2:School start auto center;				
		Setup fai	led	W018,FAIL;				
			ically obtain the center	geo2:School set auto center OK				
		<u> </u>	titude success					
			ically obtain the center itude failed	geo2:School set auto center fail				
	Instruction	R018,<1>	<u>.</u> ::		Function: read an electronic fence.			

Parameter	<1>	The serial number of the electronic fence, range: 1~5.	Note:
Example	R018,1;	,	
Reply	Success	R018,OK, Home,-22.12345678,114.12345678,500.0;	
	Failure	R018,FAIL;	
instruction	C018,<1>	;	Function: Clear an electronic fence.
parameter	<1>	The serial number of the electronic fence, range: 1~5	Note:
Example	C018,1;		
Reply	Success	C018,OK;	
	failure	C018,FAIL;	
Instruction	C018;		Function: Clear all electronic fences
Parameter	No		Note:
Example	C018;		
Reply	Success	C018,OK;	
	Failure	C018,FAIL;	

6.2.12 Time zone

Numbering			Functions and precautions	
20	Instruction	W020,<1>;	Function: Set time zone.	
	Parameter	<1>	Time zone value, range: -720~780, default: 0, unit: minute. (Explanation: 1 hour equals 60 minutes, +8 time zone equals 480 minutes)	Note: After the time zone is modified, the time and date in the SMS data will be updated to the local time and date,
	Example	W020,480;		while the time and date in the GPRS
	Reply	Success	W020,OK;	data will still be Green Time and Date.
		Failure	W020,FAIL;	
	Instruction	R020;		Function: Read time zone.
	Parameter	No		Note:
	Example	R020;		
	Reply	Success	R020,OK,480;	
		Failure	R020,FAIL;	
	Instruction	C020;		Function: Clear time zone.
	Parameter	No		Note: After clearing, the time zone is 0.
	Example	C020;		7
	Reply	Success	C020,OK;	
		Failure	C020,FAIL;	

6.2.13 Data log

Numbering			Instruction description	Functions and precautions
28	Instruction	R028;		Function: read the number of GPRS
	Parameter	No		stored data
	Example	R028;		Note:
	Reply	Success	R028,OK,58;	
		Failure	R028,FAIL;	
	Instruction	C028;		Function: Clear all GPRS stored data.
	Parameter	No		Note:
	Example	C028;		
	Reply	Success	C028,OK;	
		Failure	C028,FAIL;	

6.2.14 Basic equipment information

Numbering			Instruction description	Functions and precautions
29	Instruction	R029;		Function: Read the basic information of
	Parameter	no		the device. Basic equipment information
	Example	R029;		includes:
	Reply	Success	R029,OK,MT70_ALPHA_20131223-1_standard,spiflash ok,gsensor ok,gps fix 062917.00 241213;	 1.MT70_ALPHA_20131223-1_standard, firmware version number. 2. spiflash ok, external storage chip status. 3. geography acceleration consor status.
		Failure	R029,FAIL;	 3. gsensor ok, acceleration sensor state 4. gps fix 062917.00 241213, the latest GPS positioning time (UTC time and date). Note:

6.2.15 AGPS latitude and longitude

Numbering Instruction description	Functions and precautions
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Instruction	W030,<1	>,<2>;	Function: Set AGPS latitude and	
Parameter	<1>	AGPS latitude, range: -90.00000000~90.00000000, unit: degree.	longitude.	
	<2>	AGPS longitude, range: -180.00000000~180.00000000, unit:	Note:	
Example	W030.22	degree. 639788,114.043863;	_	
Reply	Success	W030,OK;		
	Failure	W030,FAIL;		
In atmosphic a	D020		Franking Dood ACDC latitude and	
Instruction	R030;		Function: Read AGPS latitude and	
Parameter	No		longitude. Note:	
Example	R030;			
Reply	Success	R030,OK,22.639788,114.043863;		
	Failure	R030,FAIL;		
Instruction	C030;		Function: Clear AGPS latitude and	
Parameter	No		longitude.	
Example	C030;		Note: After clearing, the latitude and	
Reply	Success	C030,OK;	longitude are all 0.	
	Failure	C030,FAIL;		

6.2.16 Motor vibration

		Instruction description	Functions and precautions		
Instruction	W036,<1>	;	Function: Set the number of times the		
Parameter	<1>: The n	number of times the motor vibrates (range 1-255) 0 means no	device motor vibrates immediately.		
	vibration		Note:		
Example	W036;				
Reply	Success	W036,OK;			
	Failure	W036,FAIL;			
	Parameter Example	Parameter <1>: The r vibration Example W036; Reply Success	Instruction W036,<1>; Parameter <1>: The number of times the motor vibrates (range 1-255) 0 means no vibration Example W036; Reply Success W036,OK;		

6.2. 17 WIFI switch

Numbering			Instruction description	Functions and precautions
39	Instruction	struction W039,<1>;		Function: Set device WIFI on turn off.
	Parameter	<1>	Device WIFI switch parameter, default 1	Note: 1 = turn on, 0 = turn off.
	Example	W039,1;		
	Reply	Success	W039,OK;	
		Failure	W039,FAIL;	
	Instruction R039;			Function: Read the WIFI switch status of
	Parameter	No		the device.
	Example	R039;		Note:
	Reply	Success	R039,OK,1;	
		Failure	R039,FAIL;	
	Instruction	C039;		Function: Clear the WIFI switch status of
	Parameter	No		the device.
	Example	C039;		Note: After clearing, the WIFI status of
	Reply	Success	C039,OK;	the device is turned off.
		Failure	C039,FAIL;	

6.2.18 WIFI /Bluetooth module

Numbering			Instruction description	Functions and precautions
40	Instruction	W040,<1	>;	Function: Set the device WIFI mode.
	Parameter	<1>	WIFI /Bluetooth mode control, the default is 0	Parameter 2: Enable Bluetooth scan to
	Example	W040,2;		scan for a specific Bluetooth MAC
	Reply	Success	W040,OK;	address (a specific Bluetooth MAC
		Failure	W040,FAIL;	address can be written through the 042 command); Parameter 1: Enable home monitoring mode and connect to WIFI base station; If the parameter is 0, the mode is common.
	Instruction			Function: read the WIFI /Bluetooth
	Parameter			mode of the device
	Example R0	R040;		Note:
	Reply	Success	R040,OK,2,;	
		Failure	R040,FAIL;	

6.2.19 WIFI base station/Bluetooth MAC address added

Numbering Instruction description	Functions and precautions
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42	Instruction	W042,<1	, , ,	Function: Set the WIFI base station or
	Parameter	<1>	WIFI base station/Bluetooth MAC address 1, empty by default	Bluetooth MAC address to be connected
		<2>	WIFI base station/Bluetooth MAC address 2, empty by default	to the device. Note:
		<3>	WIFI base station/Bluetooth MAC address 3, the default is empty	1000
	Example 1	W042,20	77826840510433,,;	
	Reply	Success	W042,OK;	
		Failure	W042,FAIL;	
	Example 2	W042,c3	:00:00:22:66:ec,,;	
	Reply	Success	W042,OK;	
		Failure	W042,FAIL;	
	Note : The B first one.	luetooth N	1AC address is entered in lowercase letters and can only be written to the	
		luetooth N	MAC address is entered in lowercase letters and can only be written to the	
		R042;	MAC address is entered in lowercase letters and can only be written to the	Function: read the WIFI base station/BI
	first one.	1	MAC address is entered in lowercase letters and can only be written to the	uetooth MAC address written by the de
	first one. Instruction	R042;	MAC address is entered in lowercase letters and can only be written to the	uetooth MAC address written by the de vice
	Instruction Parameter	R042;	R042,OK, c3:00:00:22:66:ec,,;	uetooth MAC address written by the de
	Instruction Parameter Example	R042; No R042;	,	uetooth MAC address written by the de vice
	Instruction Parameter Example Reply	R042; No R042; Success Failure	R042,OK, c3:00:00:22:66:ec,,;	uetooth MAC address written by the de vice
	Instruction Parameter Example	R042; No R042; Success	R042,OK, c3:00:00:22:66:ec,,;	uetooth MAC address written by the de vice Note:
	Instruction Parameter Example Reply Instruction	R042; No R042; Success Failure	R042,OK, c3:00:00:22:66:ec,,;	uetooth MAC address written by the device Note: Function: Clear the WIFI base station/Bluetooth MAC address of the device.
	Instruction Parameter Example Reply Instruction Parameter	R042; No R042; Success Failure	R042,OK, c3:00:00:22:66:ec,,;	uetooth MAC address written by the device Note: Function: Clear the WIFI base station/Bluetooth MAC address of the

6.2.20 Alarm play Settings

Numbering			Functions and precautions		
43	Instruction	struction W043,<1>,<2>,<3>;		Function: Set the alarm sound to pla	
	Parameter	<1>	Turn off other sounds except the wristband alarm, the default is 1 (1=on, 0=off) (can be omitted)	Note:	
		<2>	Turn off/on the wristband alarm sound, the default is 1 (1=on, 0=off) (can be omitted)		
		<3>	Whether to play the wristband alarm sound immediately/play the call center, the default is 0 (0=No sound is played,1=play the wristband alarm sound immediately, 2=play the call center)		
	Example	W043,1,1	1,1;		
	Reply	Success	W043,OK;		
		Failure	W043,FAIL;		
	Instruction	R043;		Function: Read the alarm sound play back settings written by the device Note:	
	Parameter	No			
	Example	R043;			
	Reply	Success	R043,OK,1,1,1;		
		Failure	R043,FAIL;		
	Instruction	C043;		Function: Clear the alarm sound playback switch.	
	Parameter	No			
	Example	C043;		Note:	
	Reply	Success	C043,OK;		
	-1-1	Failure	C043,FAIL;	1	

6.2.21 Function switch

Numbering		Instruction description		Functions and precautions	
	instruction	W044,<	1>,<2>;		Function: Set the function switch and water detection time.
	parameter	<1>	Α	Belt alarm switch (1= on, 0= off). The default value is 0 off	Note: The detection time setting must
			В	Click the alarm switch (1= on, 0= off), the default is: 0 off	—be greater than 0
			С	433 Communication switch (1= on, 0= off), the default is: 0 off	
			D	Light activated switch (1= on, 0= off), default: 0 off	
			Е	Water soak alarm switch (1=on, 0=off). default: 0 off(Reserved)	
		<2>	defaul	ater soaking alarm detection time of bubble alarm is 20 minutes by it, with 100 milliseconds as the unit, 1min=600ms, and the range is 1-1. (For example: set to 12000, that is, 20min * 600ms = 12000)	
	Example	W044,0	0000,120	00;	

Reply	success	W044,OK;	
	failure	W044, FAIL;	
instruction	R044;		Function: Read the function switch and water detection time.
parameter	NO		Note:
Example	R044;		
Reply	success	R044,00000,12000;	
	failure	R044,FAIL;	

6.2.22 Switch voice broadcast language

Numbering			Instruction description	Functions and precautions	
45	instruction	W045,<1	>;	Function: Set the switching voice	
	parameter		Set the switching voice broadcast language, 0 stands for Chinese, 1 for English, 2 for Spanish, 3 for Thai	broadcast language, 0 stands for Chinese 1 for English, 2 for Spanish, 3 for Thai	
	Example	W045,1;		Note:	
	Reply	success	W045,OK;		
		failure	W045, FAIL;		
		1			
	instruction	R045; NO R045;		Function: Read the voice broadcast language of the device. Note:	
	parameter				
	Example				
	Reply	success	R045,OK,1;		
		failure	R045,FAIL;	1	

6.2.23 Device acquisition parameters

Numbering			Instruction description	Functions and precautions
50	Instruction	C050;	Function: After the server sends an	
	Parameter	No		instruction to set the parameters successfully, you can issue this
	Example	C050;		instruction to make the device
Reply	Reply	Success	C050,OK;	actively disconnect from the server, and then reconnect to the server
		Failure	C050, FAIL;	according to the parameters.
				Note: If the reconnected server is different, the feedback data will be sent to the last connected server.
	la atomatico	0050		F
	Instruction			Function: The device sends this instruction to request the server to set the parameters of the device.
	Parameter			
	Example	Q050;		Note:
	Reply	Success	After the device successfully sends the query command to the server, the server should immediately set the parameters of the device.	
				⅃

6.2.24 Real-time location query

Numbering			Instruction description	Functions and precautions	
52	Instruction	struction W052; Function: Start real-time location query.		Function: Start real-time location query	
	Parameter	No		Note:	
	Example	W052;			
	Reply	Success	After receiving the real-time location query instruction, the device will first perform positioning, and then reply the real-time location information to the mobile phone or platform after the positioning is successful or timed out. (Note: When the instruction is issued by the mobile phone, the instant location information will be returned to the mobile phone and the server; when the instruction is issued by the server, the instant location information will only be returned to the server.)		
		Failure	No feedback.		

Numbering			Functions and precautions					
98	Instruction	W098,<1	>;	Function: Start remote upgrade (default data verification method: (CRC-CCITT). Note:				
	Parameter	<1>	Upgrade firmware name, range: 0-49 characters.					
	Example	W098,tra	acker.bin;					
	Reply	Success	W098,OK;					
		Fail	W098,FAIL;					
	Instruction	R098;		Function: Read the remote upgrade status of the device. Note:				
	Parameter	No						
	Example	R098;		Note.				
	Reply	Success	R098,OK, Upgrade firmware name, number of received packages, total number of packages, verification method;					
		Fail	R098,FAIL;					
	Instruction	C098;		Function: Stop remote upgrade.				
	Parameter	No		Note:				
	Example	C098;						
	Reply	Success	C098,OK;					
		Fail	C098,FAIL;					

6.2.26 Factory settings

Numbering			Instruction description	Functions and precautions		
99	Instruction	C099;		Function: Clear all parameters (restore		
F	Parameter	No		factory settings). Note:		
	Example	C099;				
		Success	C099,OK;			
		Fail	C099,FAIL;			

6.2.27 Remote restart

Numbering			Functions and precautions			
100	Instruction	W100;		Function: Restart the device remotely. Note: The device will not restart until 15 seconds after receiving the remote		
	Parameter	No				
	Example		restart command.			
	Reply	Success	W100,OK;			
		Fail	W100,FAIL;			