

# 1.Location Information Reports Additional Informational Extensions

MessageID: 0x0200, 0x0201, 0x0202, 0x0203。

Table 20 Additional information definition

Additional information ID	Additional informatio length	EXPLAIN
0x01	4	mileage, DWORD, 1/10km, Correspond to the odometer reading on the car
0x02	2	fuel, WORD, 1/10L, Correspond to the fuel meter reading on the car
0x03	2	The speed acquired by the travel record function , WORD , 1/10km/h
0x04~0x0F		retain
0x11	1or5	Over speed alarm addition information see table21
0x12	6	In and out of the area/path addition information see table22
0x13	7	Not enough driving time on the road/over long alarm addition information see table 23
0x80	1	instantaneous speed BYTE km/h
0x81	2	Engine speed WORD rpm (转/分)
0x82	2	Battery voltage WORD 0.1V
0x83	1	Engine load BYTE %
0x84	1	Coolant temperature BYTE -40 ℃
0x85	2	instantaneous fuel consumption WORD ML/H
0x86	1	air inlet temperature BYTE -40 ℃
0x87	2	Aie flow WORD g/s

0x88	1	Intake manifold absolute pressure BYTE kpa
0x89	1	Throttle position BYTE %
0x8A	2	Fuel pressure metering WORD kpa
0x8B	17	VIN code
0x8C	4	Total mileage, DWORD 0.1km
0x8D	2	Mileage WORD km
0x8E	1	Oil percentage BYTE %
0x8f	1	The number of rapid accelerations of this trip BYTE
0x90	1	The number of rapid deceleration of this trip BYTE
0x91	1	The number of sharp turns on this trip BYTE
0x92	4	The mileage of the trip, DWORD Unit 1/10KM
0x93	2	The fuel consumption of this trip, WORD Unit ML
0x94	2	Average speed of the trip WORD Unit KM/H
0x95	2	Maximum speed of the trip WORD Unit KM/H
0x96	1	Overspeed times of this trip BYTE
0x97	1	Idle times of this trip BYTE
0x9F	N	Base station information, format is as follows
0xA0	N	The format of fault code information is as follows

Base station information format

field	Data type	Description and requirements
MCC	STRING	Country code
Separator	STRING	,
MNC	STRING	Operator code
Separator	STRING	,
Connect base station LAC	STRING	Connected base station
Separator	STRING	One byte, fixed as','

Connection base station number CELLID	STRING	
Separator	STRING	One byte, fixed as','
Connecting base station signal strength	STRING	
Separator	STRING	One byte, fixed as','
Nearby base stations1 LAC	STRING	Nearby base stations, up to 3 nearby base stations
Separator	STRING	One byte, fixed as','
Nearby base stations1code CELLID	STRING	
Separator	STRING	One byte, fixed as','
Signal strength of nearby base stations 1	STRING	
...	...	...

OBD Fault code format

field	Data type	Description and requirements
Fault code 1	STRING	E. g. , P1001 each fault code occupies 5 bytes
Separator	STRING	One byte, fixed as','
Fault code 2	STRING	
Separator	STRING	One byte, fixed as','
...	...	...

## 2.Trip start:

MessageID: 0x0202。

The travel start message body consists of the list of **basic location information** and **additional location information** items (same as 0200), and a message is reported when ACC is opened.

This message platform must reply to the general reply. If the platform does not reply, the terminal will send it three times continuously.

**Platform general response 0x8001**

MessageID: 0x0200

The location information report message consists of the list of basic location information and additional location information items, and the message structure diagram is shown in picture 3:

Basic position information	List of Location Additional Information Items
----------------------------	---

Picture 3:Location report message structure diagram

The list of position additional information items is composed of various position additional information items, which may or may not be included, and is determined according to the length field in the message.

See table 23 for the data format of basic location information.

## 3.End of trip:

MessageID: 0x0203。

The travel end message body consists of the list of basic position information and additional position information items (same as 0200), and a message is reported when ACC is closed. The message additional information item list must contain the following additional information ID:0x8f, 0X90, 0X91, 0X92, 0X93, 0X94, 0X95, 0X96, 0X97

This message platform must reply to the general reply. If the platform does not reply, the terminal will send it three times continuously.

## 4.Setting terminal parameters:

MessageID:0X8103

Setting terminal parameters needs to support setting: APN (0x0010), IP (0x0013), port (0x0018), water temperature threshold (0X0031), overspeed (0X0055), idle speed (0X0033), low voltage (0X0032), continuous driving time gate (0X0057), Minimum rest time (0X0059), **inflection point compensation angle (0X0030)**,ACC off reporting interval (0X0027),ACC on reporting interval (0X0022)

Table11 Definition and description of each parameter item of terminal parameter setting

Parameter ID	Data type	Description and requirements
0X0031	WORD	Water temperature threshold, in degrees Celsius
0X0032	WORD	Low voltage alarm unit 0.1V
0X00000033	DWORD	Idle speed alarm unit KM/H

### 5.Alarm bit extension:

The alarm bits need to be analyzed: overspeed alarm (1), fatigue driving (2), terminal main power supply under voltage (7), terminal main power supply power failure (8), excessive water temperature (12), illegal vehicle displacement (28), idle speed (13)

Table 18 Alarm bit definition extension

position	Definition	Handling instructions
12	1. Water temperature is too high	
13	1: Idle speed	