

MEITRACK Tire Pressure Sensor GPRS Protocol

Applicable Model: T333/T1



Change History

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	Protocol		
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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><Geo-fence number>/<Assisted event info>,<Customized data>,<Extended protocol version>,<Fuel percentage>,<Temperature sensor 1 value|Temperature sensor 2 value|......Temperature sensor n value>,<Data of tire pressure sensor 1|Data of tire pressure sensor 2|......Data of tire pressure sensor n><*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 is represented as 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 is represented as 0x40.)	
\$\$	Indicates the GPRS data packet header sent from	\$\$
	the tracker to the server. The header type is ASCII.	
	(Hexadecimal is represented as 0x24.)	
Data identifier	Contains 1 byte. The type is the ASCII, and its value	Q
	ranges from 0x41 to 0x7A.	
Data length	Indicates the length of characters from the first	25
	comma (,) to \r\n. Decimal.	
	Example: \$\$ <data identifier=""><data< td=""><td></td></data<></data>	
	length> <u>,<imei>,<command< u=""></command<></imei></u>	
	<u>type>,<command/><*Checksum>\r\n</u>	
IMEI	Indicates the tracker's IMEI number. The number	353358017784062



	type is ASCII. It has 15 digits generally.	
Command tuno		AAA
Command type	Hexadecimal	
Event code	Decimal	1
Latitude	Unit: degree	22.756325 (indicates
(-)yy.dddddd	Decimal	22.756325°N)
	When a minus (-) exists, the tracker is in the	-23.256438 (indicates
	southern hemisphere. When no minus (-) exists,	23.256438°S)
	the tracker is in the northern hemisphere.	
	yy indicates the degree.	
	ddddd indicates the decimal part.	
Longitude	Unit: degree	114.752146 (indicates
(-)xxx.dddddd	Decimal	114.752146°E)
	When a minus (-) exists, the tracker is in the	-114.821453 (indicates
	western hemisphere. When no minus (-) exists, the	114.821453°W)
	tracker is in the eastern hemisphere.	
	xxx indicates the degree.	
	ddddd indicates the decimal part.	
Date and time	yy indicates year.	091221102631
yymmddHHMMSS	mm indicates month.	Indicates 21 December 2009,
	dd indicates day.	10:26:31 am.
	HH indicates hour.	
	MM indicates minute.	
	SS indicates second.	
	Decimal	
Positioning status	Indicates the GPS signal status.	A
-	A = Valid	The GPS is valid.
	V = Invalid	
Number of satellites	Indicates the number of received GPS satellites.	5
	Decimal	Five GPS satellites are received.
GSM signal strength	Value: 0–31	12
	Decimal	The signal strength is 12.
Speed	Unit: km/h	58
opeed	Decimal	The speed is 58 km/h.
Direction	Indicates the driving direction. The unit is degree.	45: indicates that the location
Direction	When the value is 0 , the direction is due north. The	is at northeast.
	value ranges from 0 to 359.	90: indicates that the location
	Decimal	is at due east.
НДОР	The value ranges from 0.5 to 99.9. The smaller the	5
		5 The HDOP is 5.
	value is, the more the accuracy is. Decimal	
	When the accuracy value is 0 , the signal is invalid.	
	0.5–1: Perfect	
	2–3: Wonderful	



		4–6: Good	
		7–8: Medium	
		9–20: Below average	
		21–99.9: Poor	
Altitude		Unit: meter	118
		Decimal	
Mileage		Unit: meter	564870
		Decimal	
		Indicates the total mileage. The maximum value is	
		4294967295. If the value exceeds the maximum	
		value, it will be automatically cleared.	
Run time		Unit: second	2546321
		Decimal	
		Indicates the total time. The maximum value is	
		4294967295. If the value exceeds the maximum	
		value, it will be automatically cleared.	
Base station	info	The base station information includes:	460 0 E166 A08B
		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.	
I/O port stat	us	Hexadecimal	0421 (hexadecimal) = 0000
		Status values of eight input ports and eight output	0100 0010 0001
		ports:	
		Bits 0–7 correspond to status of output ports 1–8.	
		Bits 8–15 correspond to status of input ports 1–8.	
Analog input	t value	Separated by " ".	123 456 235 1456 222
		Hexadecimal	(Hexadecimal)
		AD1 AD2 AD3 Battery analog External power	
		analog	
		Voltage formula of analog AD (AD1, AD2, AD3,	
		AD4, and AD5): AD/100	
Assisted	System	Contains 4 bytes; hexadecimal	0000001
event info	flag	Bit 0: Whether to modify the EEP2 parameter.	The EEP2 parameter is
		When the value is 1, the EEP2 parameter is	modified.
		modified.	
		Bits 1–31: reserved.	
		Only available by GPRS event code 35.	
Customized	data	Reserved	
-		A separator still exists.	
Extended	protocol	Decimal	4
Extended			
version			The extended protocol version



Fuel percentage	Contains 4 hexadecimal characters.	0E2E
	When the fuel level sensor type is 0 , the sensor is	The fuel percentage is 36.30%.
	not connected and the value is empty.	
Temperature sensor	Contains 6 hexadecimal characters.	011A09 021A15 06FB2E
No. + Temperature	The first two characters indicate the temperature	There are 3 temperature
value	sensor No.	sensors.
	The last four characters indicate the temperature	Temperature sensor 1: 66.65°C
	value (actual temperature x 100; including the	Temperature sensor 2: 66.77°C
	integer and decimal parts; -327.67°C to	Temperature sensor 6: -12.34°C
	+327.67°C).	
Tire pressure sensor	At most 64 tire pressure sensors are supported.	0A0012345602587801
data	Contains 18 hexadecimal characters.	0B0012345702587801
	• First two characters: indicates the installation	0C0012345802587801
	location of a tire pressure sensor; 1 byte (2	There are 3 tire pressure
	characters).	sensors.
	Bits 7–5: indicate the vehicle head or trailer.	Tire pressure sensor 1:
	000(B): vehicle head; 001(B): trailer 1;	• 0A: The sensor is installed
	010(B): trailer 2; 011(B): trailer 3; 100(B):	on the 10 th tire of the
	trailer 4.	vehicle head.
	Bits 4–0: indicate the tire number. For	• 00123456: The tire
	example, 00001(B), indicating the first tire.	pressure sensor ID is
	• The 3 rd to 10 th characters: indicates a tire	0x00123456
	pressure sensor's ID number; 4 bytes (8	(hexadecimal).
	characters); unsigned.	• 0258: The tire pressure is
	• The 11 th to 14 th characters: indicates the tire	15 bar.
	pressure; 2 bytes (4 characters); formula:	0258 (hexadecimal) = 600
	obtained value x 0.025; unit: bar.	(decimal)
	• The 15 th and 16 th characters: indicates the	600 x 0.025 = 15
	tire temperature; 1 byte (2 characters);	• 78: The tire temperature
	formula: obtained value – 50; unit: °C;	is 70°C.
	unsigned.	78 (hexadecimal) = 120
	• The 17 th and 18 th characters: indicates the	(decimal)
	tire status; 1 byte (2 characters); unsigned.	120 - 50 = 70
	Bit 7: indicates the battery voltage status of	• 01: A fast air leak alert is
	the transmitter. 0: normal voltage; 1: low	generated.
	voltage.	Tire pressure sensor 2:
	Bit 6: Whether to receive data from the	• OB: The sensor is installed
	transmitter. If you do not receive data from	on the 11 th tire of the
	the transmitter within 15 minutes, the	vehicle head.
	parameter value will be reset to 1.	• 00123457: The tire
	Bit 5: reserved.	pressure sensor ID is
	Bit 4: When the value is 1, the air pressure is	0x00123457
	high.	(hexadecimal).
	Bit 3: When the value is 1, the air pressure is	• 0258: The tire pressure is



Bit 2: indicates temperature status. 1: high temperature; 0: normal temperature.025 (de (de Bits 1-0: indicates the alert status. 00: no alert; 01: fast air leak alert; 10: slow air leak alert; 11: tire inflation alert.600 Bits 1-0: indicates the alert status. 00: no alert; 01: fast air leak alert; 10: slow air leak alert; 11: tire inflation alert.600 <th>bar. 58 (hexadecimal) = 600 cimal) 0 x 0.025 = 15 The tire temperature 0°C. (hexadecimal) = 120 cimal)</th>	bar. 58 (hexadecimal) = 600 cimal) 0 x 0.025 = 15 The tire temperature 0°C. (hexadecimal) = 120 cimal)
temperature; 0: normal temperature.(deBits 1–0: indicates the alert status. 00: no600alert; 01: fast air leak alert; 10: slow air leak• 78:alert; 11: tire inflation alert.is 778(de120120	cimal)) x 0.025 = 15 The tire temperature 0°C. (hexadecimal) = 120
Bits 1–0: indicates the alert status. 00: no alert; 01: fast air leak alert; 10: slow air leak alert; 11: tire inflation alert. 78 (de 120	0 x 0.025 = 15 The tire temperature 0°C. (hexadecimal) = 120
alert; 01: fast air leak alert; 10: slow air leak• 78:alert; 11: tire inflation alert.is 778(de120120	The tire temperature 0°C. (hexadecimal) = 120
alert; 11: tire inflation alert. is 7 78 (de 120	0°C. (hexadecimal) = 120
78 (de 120	(hexadecimal) = 120
(de 120	
120	cimal)
) - 50 = 70
• 01:	A fast air leak alert is
ger	nerated.
Tire pres	sure sensor 3:
• 0C:	The sensor is installed
	the 12 th tire of the
veh	nicle head.
• 001	123458: The tire
	ssure sensor ID is
0x0	00123458
(he	xadecimal).
• 025	8: The tire pressure is
15	bar.
025	58 (hexadecimal) = 600
(de	cimal)
600) x 0.025 = 15
• 78:	The tire temperature
is 7	0°C.
78	(hexadecimal) = 120
(de	cimal)
120) - 50 = 70
• 01:	A fast air leak alert is
ger	nerated.
* Separates commands from checksums. *	
1 byte and ASCII (Hexadecimal is represented as	
0x2A)	
Checksum 2 bytes. The parameter indicates the sum of all BE	
data (excluding the checksum and ending mark). It	
is a hexadecimal character.	
Example: <u>\$\$<data< u=""> identifier><data< td=""><td></td></data<></data<></u>	
length>, <imei>,<command_< td=""><td></td></command_<></imei>	
<u>type>,<command/><*</u> Checksum>\r\n	
\r\n 2 bytes. The parameter is an ending character. The \r\n	
type is ASCII. (Hexadecimal value: 0x0d 0x0a)	



3 Command Details

GPRS Sending	DAO
GPRS Reply	DA0, <high axle="" first="" of="" pressure="" the="" threshold=""><low axle="" first="" of="" pressure="" the="" threshold=""><high axle="" of="" pressure="" second="" the="" threshold=""><low axle="" of="" pressure="" second="" the="" threshold=""><high axle="" of="" pressure="" the="" third="" threshold=""><low axle="" of="" pressure="" the="" third="" threshold=""><high axle="" fourth="" of="" pressure="" the="" threshold=""><low axle="" fourth="" of="" pressure="" the="" threshold=""><high of="" pressure="" the="" threshold="" trailer=""><low axle="" fourth="" of="" pressure="" the="" threshold=""><high of="" pressure="" the="" threshold="" trailer=""><low of="" pressure="" the="" threshold="" trailer=""><high of="" pressure="" the="" threshold="" trailer=""><low pressure<="" td=""></low></low></low></low></low></low></low></low></low></low></low></low></low></low></low></low></low></low></low></low></low></low></low></low></low></low></low></low></low></low></low></low></low></low></low></low></low></low></low></high></low></high></low></high></low></high></low></high></low></high></low></high>
Description	 High pressure threshold of the first axle: hexadecimal; unsigned; 1 byte; formula: obtained value/10; unit: bar. Low pressure threshold of the first axle: hexadecimal; unsigned; 1 byte; formula: obtained value/10; unit: bar. High pressure threshold of the second axle: hexadecimal; unsigned; 1 byte; formula: obtained value/10; unit: bar. Low pressure threshold of the second axle: hexadecimal; unsigned; 1 byte; formula: obtained value/10; unit: bar. High pressure threshold of the second axle: hexadecimal; unsigned; 1 byte; formula: obtained value/10; unit: bar. High pressure threshold of the third axle: hexadecimal; unsigned; 1 byte; formula: obtained value/10; unit: bar. Low pressure threshold of the third axle: hexadecimal; unsigned; 1 byte; formula: obtained value/10; unit: bar. High pressure threshold of the fourth axle: hexadecimal; unsigned; 1 byte; formula: obtained value/10; unit: bar. High pressure threshold of the fourth axle: hexadecimal; unsigned; 1 byte; formula: obtained value/10; unit: bar. Low pressure threshold of the fourth axle: hexadecimal; unsigned; 1 byte; formula: obtained value/10; unit: bar. Low pressure threshold of the trailer: hexadecimal; unsigned; 1 byte; formula: obtained value/10; unit: bar. High pressure threshold of the trailer: hexadecimal; unsigned; 1 byte; formula: obtained value/10; unit: bar. High pressure threshold of the trailer: hexadecimal; unsigned; 1 byte; formula: obtained value/10; unit: bar. High temperature threshold of the trailer: hexadecimal; unsigned; 1 byte; formula: obtained value/10; unit: bar. High temperature threshold: hexadecimal; unsigned; 1 byte; formula: obtained value/10; unit: bar.
Example	
GPRS Sending	@@Q25,863835020877432,DA0*72\r\n
Grns Senuing	

3.1 Obtaining All Alert Parameters of a Tire Pressure Sensor – DA0

3.2 Obtaining Data of All Bound Tire Pressure Sensors – DA1

GPRS Sending	DA1
GPRS Reply	DA1, <location 1=""><id1><tire 1="" pressure=""><temperature 1=""><status 1=""><location n><idn><tire n="" pressure=""><temperature n=""><status n=""></status></temperature></tire></idn></location </status></temperature></tire></id1></location>
Description	• Location: indicates the installation location of a tire pressure sensor; 1 byte;

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unsigned; hexadecimal.
Bits 7–5: indicate the vehicle head or trailer. 000(B): vehicle head; 001(B): trailer 1;
010(B): trailer 2; 011(B): trailer 3; 100(B): trailer 4.
Bits 4–0: indicate the tire number. For example, 00001(B), indicating the first tire.
• ID: indicates a tire pressure sensor's ID number; 4 bytes; unsigned; hexadecimal.
• Tire pressure: 2 bytes; unsigned; hexadecimal; formula: obtained value x 0.025; unit: bar.
• Temperature: indicates the tire temperature; 1 byte; unsigned; hexadecimal;
formula: obtained value – 50; unit: °C.
 Status: indicates the tire status; 1 byte; unsigned; hexadecimal.
Bit 7: indicates the battery voltage status of the transmitter. 0: normal voltage; 1:
low voltage.
Bit 6: Whether to receive data from the transmitter. If you do not receive data from
the transmitter within 15 minutes, the parameter value will be reset to 1.
Bit 5: reserved.
Bit 4: When the value is 1, the air pressure is high.
Bit 3: When the value is 1, the air pressure is low.
Bit 2: indicates temperature status. 1: high temperature; 0: normal temperature.
Bits 1-0: indicates the alert status. 00: no alert; 01: fast air leak alert; 10: slow air
leak alert; 11: tire inflation alert.
Note: At most 64 tire pressure sensors are supported. In other words, the maximum
value of <i>n</i> is 64.
@@Q25,863835020877432,DA1*82\r\n
\$\$Q90,863835020877432,DA1,020800100000000000000071101000000000006100100
00000000005010100000000000000000000000
000000BC*46\r\n

3.3 Obtaining Data of a Tire Pressure Sensor – DA2

GPRS Sending	DA2,Location
GPRS Reply	DA2, <location><id><tire pressure=""><temperature><status></status></temperature></tire></id></location>
Description	 Location: indicates the installation location of a tire pressure sensor; 1 byte; unsigned; hexadecimal. Bits 7–5: indicate the vehicle head or trailer. 000(B): vehicle head; 001(B): trailer 1; 010(B): trailer 2; 011(B): trailer 3; 100(B): trailer 4. Bits 4–0: indicate the tire number. For example, 00001(B), indicating the first tire. ID: indicates a tire pressure sensor's ID number; 4 bytes; unsigned; hexadecimal. Tire pressure: 2 bytes; unsigned; hexadecimal; formula: obtained value x 0.025; unit: bar. Temperature: indicates the tire temperature; 1 byte; unsigned; hexadecimal; formula: obtained value – 50; unit: °C. Status: indicates the tire status; 1 byte; unsigned; hexadecimal.



	 Bit 7: indicates the battery voltage status of the transmitter. 0: normal voltage; 1: low voltage. Bit 6: Whether to receive data from the transmitter. If you do not receive data from the transmitter within 15 minutes, the parameter value will be reset to 1. Bit 5: reserved. Bit 4: When the value is 1, the air pressure is high. Bit 3: When the value is 1, the air pressure is low. Bit 2: indicates temperature status. 1: high temperature; 0: normal temperature. Bits 1–0: indicates the alert status. 00: no alert; 01: fast air leak alert; 10: slow air leak alert; 11: tire inflation alert.
Example	
GPRS Sending	@@g27,863835020877432,DA2,01*C8\r\n
GPRS Reply	\$\$g35,863835020877432,DA2,010185R000000K@*F2\r\n

3.4 Deleting Tire Pressure Sensors – DA3

GPRS Sending	DA3, <location 1=""><location n=""></location></location>	
GPRS Reply	DA3, <location 1=""><location n="">,OK</location></location>	
Description	 Location: indicates the installation location of a tire pressure sensor; 1 byte; unsigned; hexadecimal. Bits 7–5: indicate the vehicle head or trailer. 000(B): vehicle head; 001(B): trailer 1; 010(B): trailer 2; 011(B): trailer 3; 100(B): trailer 4. Bits 4–0: indicate the tire number. For example, 00001(B), indicating the first tire. Note: 1. The maximum value of <i>n</i> is 64. 2. If the command is sent successfully, the installation locations of deleted tire pressure sensors will be received. 	
Example		
GPRS Sending	@@i27,863835020877432,DA3,0A*22\r\n	
GPRS Reply	\$\$i34,863835020877432,DA3,0A,OK*56\r\n	

3.5 Obtaining Data of Multiple Tire Pressure Sensors – DA4

GPRS Sending	DA4, <location 1=""><id1><location n=""><idn></idn></location></id1></location>
GPRS Reply	DA4, <location 1=""><id1><location n=""><idn>,OK</idn></location></id1></location>
Description	 Location: indicates the installation location of a tire pressure sensor; 1 byte; unsigned; hexadecimal. Bits 7–5: indicate the vehicle head or trailer. 000(B): vehicle head; 001(B): trailer 1; 010(B): trailer 2; 011(B): trailer 3; 100(B): trailer 4. Bits 4–0: indicate the tire number. For example, 00001(B), indicating the first tire. ID: indicates a tire pressure sensor's ID number; 4 bytes; unsigned; hexadecimal. Note: At most 64 tire pressure sensors are supported. In other words, the maximum



Example	value of <i>n</i> is 64.If the command is sent successfully, the installation locations and ID numbers of bound tire pressure sensors will be received.
GPRS Sending	@@\31,863835020877432,DA4,9800100100*62\r\n
GPRS Reply	\$\$\59,863835020877432,DA4,0210000000!0100000800100100C11000000980010010 0010185R00,OK*A4\r\n

3.6 Setting Alert Thresholds of a Tire Pressure Sensor – DA5

GPRS Sending	DA5, <high axle="" first="" of="" pressure="" the="" threshold=""><low first<br="" of="" pressure="" the="" threshold="">axle><high axle="" of="" pressure="" second="" the="" threshold=""><low of="" pressure="" second<br="" the="" threshold="">axle><high axle="" of="" pressure="" the="" third="" threshold=""><low of="" pressure="" the="" third<br="" threshold="">axle><high axle="" fourth="" of="" pressure="" the="" threshold=""><low fourth<br="" of="" pressure="" the="" threshold="">axle><high of="" pressure="" the="" threshold="" trailer=""><low of="" pressure="" the<br="" threshold="">trailer><high of="" the="" threshold="" trailer=""><low of="" pressure="" the<br="" threshold="">trailer><high temperature="" threshold=""></high></low></high></low></high></low></high></low></high></low></high></low></high>
GPRS Reply	DA5,OK
Description	 High pressure threshold of the first axle: hexadecimal; unsigned; 1 byte; formula: obtained value/10; unit: bar. Low pressure threshold of the first axle: hexadecimal; unsigned; 1 byte; formula: obtained value/10; unit: bar. High pressure threshold of the second axle: hexadecimal; unsigned; 1 byte; formula: obtained value/10; unit: bar. Low pressure threshold of the second axle: hexadecimal; unsigned; 1 byte; formula: obtained value/10; unit: bar. High pressure threshold of the third axle: hexadecimal; unsigned; 1 byte; formula: obtained value/10; unit: bar. High pressure threshold of the third axle: hexadecimal; unsigned; 1 byte; formula: obtained value/10; unit: bar. Low pressure threshold of the fourth axle: hexadecimal; unsigned; 1 byte; formula: obtained value/10; unit: bar. High pressure threshold of the fourth axle: hexadecimal; unsigned; 1 byte; formula: obtained value/10; unit: bar. Low pressure threshold of the fourth axle: hexadecimal; unsigned; 1 byte; formula: obtained value/10; unit: bar. High pressure threshold of the fourth axle: hexadecimal; unsigned; 1 byte; formula: obtained value/10; unit: bar. Low pressure threshold of the trailer: hexadecimal; unsigned; 1 byte; formula: obtained value/10; unit: bar. High pressure threshold of the trailer: hexadecimal; unsigned; 1 byte; formula: obtained value/10; unit: bar. High pressure threshold of the trailer: hexadecimal; unsigned; 1 byte; formula: obtained value/10; unit: bar. High pressure threshold of the trailer: hexadecimal; unsigned; 1 byte; formula: obtained value/10; unit: bar. High temperature threshold: hexadecimal; unsigned; 1 byte; formula: obtained value/10; unit: bar. High temperature threshold: hexadecimal; unsigned; 1 byte; formula: obtained value – 50; unit: °C.
Example	
GPRS Sending	@@l37,863835020877432,DA5,FF0000FFFFFF00000F19d*58\r\n
GPRS Reply	\$\$131,863835020877432,DA5,OK*BC\r\n
er no nepry	

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