Nº	Tag		Description	Length, byte	Format
1	0x01	01	Hardware version	1	Unsigned integer
2	0x02	02	Firmware version	1	Unsigned integer
3	0x03	03	IMEI	15	ASCII string
4	0x04	04	Identifier of a device	2	Unsigned integer
5	0x10	10	Number of an archive record	2	Unsigned integer
		<b>.</b>			Unsigned integer, seconds since 1970-01-01
6	0x20	20	Date and time	4	00:00:00 GMT
			Coordinates in degrees,		4 lower bits: number of satellites.
			number of satellites,		The next 4 bits: coordinates correctness,
			indication of coordinates		0 – coordinates are correct,
			determination correctness		GLONASS/GPS module is a source,
			and source of coordinates		2 - coordinates are correct,
					cellular base stations are a source,
					other values – coordinates are incorrect.
					The next 4 bytes: signed integer,
					latitude, the value should be divided
					by 1000000, negative values correspond
7	0x30	30		9	to southern latitude.
				-	Last 4 bytes: signed integer,
					longitude, the value should be divided
					by 1000000, negative values correspond
					to western longitude.
					For example, received:
					07 C0 0E 32 03 B8 D7 2D 05.
					Coordinates correctness:
					0 (coordinates are correct).
					Satellites number: 7
					Latitude: 53.612224
					Longitude: 86.890424
			Speed in km/h and direction in		2 lower bytes: unsigned integer,
			degrees		speed, the value should be divided by 10.
		l			2 higher bytes: unsigned integer,
8	0x33	33		4	direction, the value should be divided by 10.
					For example, received: 5C 00 48 08.
					Speed: 9.2 km/h.
_	2.21				Direction: 212 degrees.
9	0x34	34	Height, m	2	Signed integer
			One of the values:		Unsigned integrer.
40	0.05	0.5	HDOP, if GLONASS/GPS	4	In case of HDOP, the value should be
10	0x35	35	module is coordinates source	1	divided by 10.
			Error in meters, if cellular base		In case of error, the value should be multiplied
		1	stations are a source.		by 10.  Unsigned integer, each bit corresponds
11	0x40	40	Status of device	2	to a separate unit state, see explanations
''	0.40	1 40	Status of device	2	below
12	0x41	41	Supply voltage, mV	2	Unsigned integer
13	0x42	42	Battery voltage, mV	2	Unsigned integer
14	0x42 0x43	43	Inside temperature, °C	1	Signed integer
	010	<del>                                     </del>	Acceleration (this tag can only		10 lower bits: acceleration by X axis.
			be used on tracking devices up to		Next 10 bits: acceleration by Y axis.
			and including the 5.1 version)		Next 10 bits: acceleration by 7 axis.
l			and and any are serviced by		Og = 512, values less than 512 – acceleration,
15	0x44	44		4	directed against the axis. Scale 1g=186.
					For example, 326 = -1g, 605 = 0,5g.
					Example, received: AF 21 98 15.
$\dashv$		<del>                                     </del>	+		Acceleration X: 431, Y: 520, Z: 345.  Each bit, beginning with the lower one,
16	0x45	45	Status of outputs	2	
16	UX40	45	Οιαίας οι ομιραίς	۷	indicates the state of a correspondent
		I	1		output

Nº	Tag		Description	Length, byte	Format
17	0x46	46	Status of inputs	2	indicates triggering on a correspondent
18	0x50	50	Input voltage 0 Depending on settings: 1. voltage, mV, 2. number of pulses; 3. frequency,Hz.	2	input Unsigned integer
19	0x51	51	Input voltage 1 Depending on settings: 1. voltage, mV, 2. number of pulses; 3. frequency,Hz.	2	Unsigned integer
20	0x52	52	Input voltage 2 Depending on settings: 1. voltage, mV, 2. number of pulses; 3. frequency,Hz.	2	Unsigned integer
21	0x53	53	Input voltage 3 Depending on settings: 1. voltage, mV, 2. number of pulses; 3. frequency,Hz.	2	Unsigned integer
22	0x58	58	RS232 0	2	The format depends on the port settings
23	0x59	59	RS232 1	2	The format depends on the port settings
24	0x70	70	Thermometer 0 identifier and measured temperature, °C	2	Lower byte: unsigned integer, identifier. Higher byte: signed integer, temperature. Identifier 127 with temperature -128 °C mean a disconnection. Example, received: 01 10 Identifier: 01 Temperature: 16°C
25	0x71	71	Thermometer 1 identifier and measured temperature, °C	2	Analogous to temperature sensor 1
26	0x72	72	Thermometer 2 identifier and measured temperature, °C	2	Analogous to temperature sensor 2
27	0x73	73	Thermometer 3 identifier and measured temperature, °C	2	Analogous to temperature sensor 3
28	0x74	74	Thermometer 4 identifier and measured temperature, °C	2	Analogous to temperature sensor 4
29	0x75	75	Thermometer 5 identifier and measured temperature, °C	2	Analogous to temperature sensor 5
30	0x76	76	Thermometer 6 identifier and measured temperature, °C	2	Analogous to temperature sensor 6
31	0x77	77	Thermometer 7 identifier and measured temperature, °C	2	Analogous to temperature sensor 7
32	0x90	90	First iButton key identification number	4	
33	0xc0	c0	CAN-bus and CAN-LOG data (CAN_A0). Fuel used by a vehicle from the date of manufacturing, I	4	Unsigned integer, the value should be divided by 2
34	0xc1	c1	CAN-bus and CAN-LOG data (CAN_A1). Fuel level, %; coolant temperature, °C; Enginespeed, rpm.	4	Lower byte: fuel level, the value should be multiplied by 0.4  The second byte: coolant temperature, the value should be deducted 40.  The third and fourth bytes: engine speed, values should be multiplied by 0.125.  Example of data from bus in order of receiving: FA 72 50 25.  Fuel level: 100%.

Nº	Tag		Description	Length, byte	Format
$\dashv$			†	~,	Temperature 74°C.
					Engine speed: 1194 rmp
T			CAN-bus and CAN-LOG data		Unsigned integer, the value should be
35	0xC2	C2	(CAN_B0).	4	multiplied by 5
			Vehicle`s mileage, m.		
36	0xC3	C3	CAN_B1	4	
			CAN8BITR0		If speed is transmitted from CAN-LOG,
37	0xC4	C4	or vehicle speed from	1	the value is an unsigned integer
			CAN-LOG, km/h		
			CAN8BITR1 or the 2 <sup>rd</sup> byte		
38	0xC5	C5	of prefix S CAN-LOG	1	
_			CAN8BITR2 or the 1 <sup>st</sup> byte		
39	0xC6	C6	of prefix S CAN-LOG	1	
-+			CAN8BITR3 or lower byte		
40	0xC7	C7		1	
-		<u> </u>	of prefix S CAN-LOG		
41	0xC8	C8	CAN8BITR4 or the 3 <sup>rd</sup> byte	1	
_			of prefix P CAN-LOG		
42	0xC9	C9	CAN8BITR5 or the 2 <sup>rd</sup> byte	1	
		<u> </u>	of prefix P CAN-LOG		
43	0xCA	CA	CAN8BITR6 or the 1 <sup>st</sup> byte	1	
		<i></i>	of prefix P CAN-LOG	·	
44	0xCB	СВ	CAN8BITR7 or lower byte	1	
44	OXOD	CD	of prefix P CAN-LOG	'	
			CAN8BITR8 or the first byte		
45	0xCC	CC	in the procedure for receiving	1	
			of prefix WA CAN-LOG		
			CAN8BITR9 or the second		
46	0xCD	CD	byte in the procedure for	1	
			receiving of prefix WA CAN-LOG		
			CAN8BITR10 or the third byte		
47	0xCE	CE	in the procedure for receiving	1	
			of prefix WA CAN-LOG		
		1	CAN8BITR11 or the fourth byte		
48	0xCF	CF	in the procedure for receiving	1	
			of prefix WA CAN-LOG	•	
			CAN8BITR12 or the fifth byte		
49	0xD0	D0	in the procedure for receiving	1	
	0,120	"	of prefix WA CAN-LOG	•	
-+			CAN8BITR13 or the sixth byte		
50	0xD1	D1	in the procedure for receiving	1	
30	OXDT		of prefix WA CAN-LOG	'	
E 1	OvD2	l	CAN8BITR14 or the seventh	4	
51	0xD2	D2	byte in the procedure for	1	
			receiving of prefix WA CAN-LOG		
52	0xD3	D3	The second iButton key	4	
			identification number		
53	0xD4	D4	Total mileage according to	4	Unsigned integer
			GPS/GLONASS units data, m.	•	<u> </u>
Ţ			State of iButton keys, identifiers		Each bit corresponds to one key.
54	0xD5	D5	of which are set by iButton	1	Example, received: 05 or 00000101
J-7	3,00			•	in binary system. It means that the first and
			command.		the third keys are connected
			Depending on settings:		In case the load is on axle, the value is
		1	1. CAN16BITR0		an unsigned integer; values should be
55	0xD6	D6	2. the 1st vehicle's axle	2	divided by 2
			load, kg		<u> </u>
			3. failure code OBD II		
$\dashv$		<del>                                     </del>	Depending on settings:		In case the load is on axle, the value is
- [			1. CAN16BITR1		an unsigned integer; values should be
56	0xD7	D7	2. the 2 <sup>nd</sup> vehicle's axle	2	divided by 2
00	0,01	I 5'	L. UIC Z VEHIOE S AXIC	_	aivided by 2

Nº	Tag		Description	Length,	Format
			load, kg	byte	
			3. failure code OBD II		
			Depending on settings:		In case the load is on axle, the value is
			1. CAN16BITR2		an unsigned integer; values should be
57	0xD8	D8	2. the 3 <sup>rd</sup> vehicle's axle	2	divided by 2
			load, kg		
			3. failure code OBD II		
			Depending on settings:		In case the load is on axle, the value is
			1. CAN16BITR3		an unsigned integer; values should be
58	0xD9	D9	2. the 4 <sup>th</sup> vehicle's axle	2	divided by 2
			load, kg 3. failure code OBD II		
		<del>                                     </del>	Depending on settings:		In case the load is on axle, the value is
			1. CAN16BITR4		an unsigned integer; values should be
59	0xDA	DA	2. the 5 <sup>th</sup> vehicle's axle	2	divided by 2
	-		load, kg		
			3. failure code OBD II		
			Depending on settings:		In case the time of engine operation is
60	0xDB	DB	1. CAN32BITR0	4	transmitted,
00	OXDB		2. total time of engine	4	the value is an unsigned integer;
			operation, h		values should be divided by 100
			Depending on settings:		In case the fuel level is on CAN-LOG,
61	0xDC	DC	1. CAN32BITR1	4	the value is an unsigned integer; values
			2. CAN-LOG, R prefix,		should be divided by 10
		<u> </u>	fuel level, I		
60	0xDD	DD	Depending on settings:	4	
62	UXDD	1 00	1.CAN32BITR2 2. CAN-LOG, user prefix	4	
-		<u> </u>	Depending on settings:		
63	0xDE	DE	1. CAN32BITR3	4	
	-		2. CAN-LOG, user prefix		
			Depending on settings:		
64	0xDF	DF	1.CAN32BITR4	4	
			2. CAN-LOG, user prefix		
			Input 4 values.		
			Depending on settings:		
65	0x54	54	1. voltage, mV	2	Unsigned integer
			2. number of pulses		
		<u> </u>	3. frequency, Hz		
			Input 5 values. Depending on settings:		
66	0x55	55	1. voltage, mV	2	Unsigned integer
00	0,00		2. number of pulses	_	onsigned integer
			3. frequency, Hz		
		<u> </u>	Input 6 values.		<u> </u>
			Depending on settings:		
67	0x56	56	1. voltage, mV	2	Unsigned integer
			2. number of pulses		
		<u> </u>	3. frequency, Hz		
			Input 7 values.		
			Depending on settings:	_	<b>1</b>
68	0x57	57	1. voltage, mV	2	Unsigned integer
			2. number of pulses		
		<del>                                     </del>	3. frequency, H		Laviar hydri uncirno di interne i dentifica
			Zero DS1923 sensor		Lower byte: unsigned integer, identifier. The second byte: signed integer, temperature.
			Identifier, measured temperature °C and		Higher byte: humidity, values should be
			humidity %		multiplied by 100 and divided by 255.
69	0x80	80	mannatty 70	3	Example, received: 01 10 20.
	ı	1	ī		Identifier: 01

Packet	acket protocol tags						
Nº	Tag		Description	Length,	Format		
	-		·	byte	T		
					Temperature: 16°C.		
			T. (\$1 D.0.1000)		Humidity: 12.54%		
			The 1 <sup>st</sup> DS1923 sensor				
70	0x81	81	Identifier, measured	3	Analogous to DS1923 zero sensor		
			temperature °C and				
			humidity %. The 2 <sup>nd</sup> DS232sensor				
71	0x82	82	Identifier, measured temperature °C and	3	Analogous to DS1923 zero sensor		
			humidity %				
			The 3 <sup>rd</sup> DS232 sensor				
			Identifier, measured				
72	0x83	83	temperature °C and	3	Analogous to DS1923 zero sensor		
			humidity %				
			The 4 <sup>th</sup> DS232 sensor				
			Identifier, measured				
73	0x84	84	temperature °C and	3	Analogous to DS1923 zero sensor		
			humidity %				
			The 5 <sup>th</sup> DS232 sensor				
			Identifier, measured	_			
74	0x85	85	temperature °C and	3	Analogous to DS1923 zero sensor		
			humidity %				
			The 6 <sup>th</sup> DS232 sensor				
	0.00		Identifier, measured				
75	0x86	86	temperature °C and	3	Analogous to DS1923 zero sensor		
			humidity %				
			The 7 <sup>th</sup> DS232 sensor				
76	0.407	07	Identifier, measured		Analogous to DC1022 Toro conser		
76	0x87	87	temperature °C and	3	Analogous to DS1923 zero sensor		
			humidity %				
77	0x60	60	RS485 [0]. Fuel level	2	Unsigned integer		
,,	0.00	00	sensor with address 0	2	onsigned integer		
78	0x61	61	RS485 [1]. Fuel level	2	Unsigned integer		
	5,10 1	٠.	sensor with address 1		oneignes integer		
79	0x62	62	RS485 [2]. Fuel level	2	Unsigned integer		
			sensor with address 2		<u> </u>		
			RS485 [3]. Fuel level		2 lower bytes: unsigned integer,		
80	0x63	63	sensor with address 3.	3	relative fuel level.		
			Relative fuel level and		Higher byte: signed integer,		
			temperature		temperature, °C		
			RS485 [4]. Fuel level		2 lower bytes: unsigned integer,		
81	0x64	64	sensor with address 4.	3	relative fuel level.		
			Relative fuel level and		Higher byte: signed integer,		
Togs D	C40E[E] DC40E[	141 (0):65.0	temperature	ore 92.01	temperature, °C		
rags R	2402[2] - KS485[	14] (UXOO-U	0x6E) are similar to RS485[4] with numb RS485 [15]. Fuel level	DEIS 0Z-Y I	2 lower bytes: unsigned integer,		
			sensor with address 15.		z lower bytes: unsigned integer, relative fuel level.		
92	0x6F	6F	Relative fuel level and temperature.	3	Higher byte: signed integer,		
			Totalive rue level and temperature.		temperature, °C		
			Extended data RS232[0].		tomporature, o		
			Depending on settings:				
			Temperature from fuel				
93	0x88	88	level sensors connected	1	Signed integer		
			to RS232 0, °C	·			
			2. Weight, received from				
			weight identifier.				
			Expanded data RS232[1].				
			Depending on the settings:				
			Temperature from fuel				
94	0x89	89	level sensors connected	1	Signed integer		
. '		•	•	•			

Nº	Tag		Description	Length, byte	Format
			to Rs232[1], °C	2310	
			2. Weight received from		
			weight identifier		
			Temperature from fuel		
95	0x8A	8A	level sensors connected	1	Signed integer
55	OXO/ C		to RS485 port with	'	loighed integer
			address 0, °C		
			Temperature from fuel		
96	0x8B	8B	level sensors connected	1	Signed integer
			to RS485 port with		
		ļ	address 1, °C		
			Temperature from fuel		
97	0x8C	8C	level sensors connected	1	Signed integer
			to RS485 port with		
		<u> </u>	address 2, °C		
			Input 8 value.		
			Depending on the settings, one of the options is the following:		
98	0x78	78	1. voltage, mV;	2	Unsigned integer
			2. number of pulses;		
			frequency, Hz.		
			Input 9 value.		
			Depending on the settings, one of the		
99	0x79	79	options is the following:	2	Unsigned integer
99	0.779	19	1. voltage, mV;	2	Unsigned integer
			2. number of pulses;		
			frequency, Hz.		
			Input 10 value.		
			Depending on the settings, one of the options is the following:		
100	0x7A	7A	1. voltage, mV;	2	Unsigned integer
			2. number of pulses;		
			frequency, Hz.		
			Input 11 value.		1
		7B	Depending on the settings, one of the		
101	0x7B		options is the following:	2	Unsigned integer
101	OATB	'5	1. voltage, mV;	2	onsigned integer
			2. number of pulses;		
			frequency, Hz.		
			Input 12 value.		
			Depending on the settings, one of the options is the following:		Unsigned integer
102	0x7C	7C	1. voltage, mV;	2	
			2. number of pulses;		
			frequency, Hz.		
			Input 13 value.		
			Depending on the settings, one of the		
103	0x7D	7D	options is the following:	2	Unsigned integer
100	OATB	''	1. voltage, mV;	2	
			2. number of pulses;		
			frequency, Hz.		
104	0x21	21	Milliseconds	2	Unsigned integer, the number of milliseconds (0 to 999) completes the date and time value
		<del>                                     </del>	CAN8BITR15 or the eighth		Accessible only by a dynamic archive
			byte in the procedure for		structure
129	0xA0	A0	receiving of prefix WA	1	
			CAN-LOG		
ags C	AN8BITR16 - CA	N8BITR29	(0xA1-0xAE) similar to CAN8BITR16 w	ith numbers 130-143	•
144	0xAF	AF	CAN8BITR30	1	Accessible only by the dynamic archive structure
				^	Accessible only by the dynamic archive
145	0xB0	B0	CAN16BITR5	2	structure
				with numbers 146-153	•

No.   Tag	Packet	acket protocol tags						
191	Nº	Tag		Description	Length, byte	Format		
170	154	0xB9	В9	CAN16BITR14		1		
170	161	0xF0	F0	CAN32BITR5	4	1		
170	Tags C	AN32BITR6 – CA	N32BITR1	3 (0xF1-0xF8) similar to CAN32BITR5	with numbers 162-169			
177 0x50 SA SA REP-500 electricity meter auditing and united general control of the program of t	_			l i		1		
See the Format below   See The Format below   See The Format below	171	0x5A	5A		4	Unsigned integer		
EcoDrive and driving style determination  174	173	0x5B	5B	_		See the format below		
PressurePro tires pressure monitoring system; 34 sensors  Array from 34 structures per 2 bytes. Index in array corresponds to the sensor number. Data structure from sensor: Lower byte: unsigned integer, tire pressure, psi. Higher byte: Bit 0-2: temperature, from -40°C up to 100°C with the 20°C interval. Bit 31 – no connection with the sensor, 0 –sensor is connected with the sensor. O –sensor is connected. Bit 43 – no connected of sensor battery low charge. Bit 5-7: the reason of data sending from the sensor. O00 – occassional sending. O01 – pressure decrease by 10% for PressurePro to by 12,5% for TPMS. O10 – high termature for TPMS. O11 – pressure decrease by 50% for TPMS. O11 – pressure decrease by 60% for TPMS. O11 – pressure decrease for TPMS. O11 – pressure of cerease by 60% for TPMS. O11 – pressure for termase for the surface				EcoDrive and driving style	4	structure. Unsigned integer. Lower byte: acceleration. The second byte: braking. The third byte: cornering acceleration. The fourth byte: strike on bumps. All accelerations are expressed in standard		
unsigned integer, (xxxxxxyy yyyyyyyy – x-order, y – floating-point coefficient). Higher byte: dosimeter state. Bit 0-2: dose power and its indeterminacy value: 000 –weighted average value is typed out via 2 channels  001 – channel 1 value is typed out 010 – channel 2 value is typed out 101 – false value is typed out (device in testing mode) Bit 3 – channel 1 state: 0 – is off, 1 – is on. Bit 4: channel 1 state: 0 – is off, 1 – is on. Bit 5: channel 2 state: 0 – is off, 1 – is on. Bit 6: channel 2 state: 0 – oK, 1 - failure. Bit 7: economy mode: 0 –is off, 1 – is on.	175	0x5C	5C	'	68	Array from 34 structures per 2 bytes. Index in array corresponds to the sensor number. Data structure from sensor: Lower byte: unsigned integer, tire pressure, psi. Higher byte: Bit 0-2: temperature, from -40°C up to 100°C with the 20°C interval. Bit 3:1 – no connection with the sensor, 0 –sensor is connected. Bit 4: identifier of sensor battery low charge. Bit 5-7: the reason of data sending from the sensor. 000 – occassional sending. 001 – pressure decrease by 10% for PressurePro or by 12,5% for TPMS. 010 – pressure decrease by 20% for PressurePro or by 25% for TPMS. 100 – high temperature for TPMS. 101 – rapid pressure decrease for TPMS. 101 – the tire is inflated for PressurePro or high pressure for TPMS. 111 - New Magnet for PressurePro		
	176	0x5D	5D	DBG-S11Ddosimeter data	3	unsigned integer, (xxxxxxyy yyyyyyyy – x-order, y – floating-point coefficient). Higher byte: dosimeter state. Bit 0-2: dose power and its indeterminacy value: 000 –weighted average value is typed out via 2 channels 001 –channel 1 value is typed out 010 – channel 2 value is typed out 101 – false value is typed out (device in testing mode) Bit 3 – channel 1 state: 0 – is off, 1 – is on. Bit 4: channel 1 state: 0 – OK, 1 – failure. Bit 5: channel 2 state: 0 – is off, 1 – is on. Bit 6: channel 2 state: 0 – OK, 1 – failure.		
177 0xE3 E3 User data 1 4		0xE2	E2	User data 0	4			
	177	0xE3	E3	User data 1	4			

Packet	protocol tags	1	1		T
Nº	Tag		Description	Length, byte	Format
177	0xE4	E4	User data 2	4	
177	0xE5	E5	User data 3	4	
177	0xE6	E6	User data 4	4	
177	0xE7	E7	User data 5	4	+
177	0xE7	E8	User data 6	4	+
184	0xE9	E9	User data 7	4	
				4	1 b. 4- i l
185	0xEA	EA	UserArray		Lower byte is array length
186			Minimum data set		
188	0x48	48	Expanded status of the device	2	Bit 0 is the connection state to the primary server. 1 is "connected", 0 is "not connected".  Bit 1 is GPRS session status. 1 is "on", 0 is "off".  Bit 2 is the sign of GSM jamming. 1 is "GSM jamming detected", 0 is "no jamming detected".  Bit 3 is the connection state to the additional server. 1 is "connected", 0 is "not connected".  Bit 4 is the sign of GPS/GLONASS jamming. 1 is "jamming detected", 0 is "no jamming detected"  Bit 5 is sign of connection to cable USB of device USB. 1 is "connected", 0 is "not connected.  Bit 6 – sign of SD car presence in device. 1 – present, 0 – absent.
191	0x49	49	Transmission channel	1	Bits 0 to 3 - transmission channel 0001 GSM 0010 WiFi 0011 BLE Bits 4 to 7 - transmission path 0001 Server 0010 Hub
192	0x11	11	Number of the current record in the archive	4	Unsigned integer
193	0x36	36	PDOP (Position Dilution of Precision). GNSS Positioning Accuracy Metric	1	Unsigned integer, the value should be divided by 10.
	0xFE	FE	Extended tags		Length is determined by the content of the tag