



АВТОГРАФ

SMS И СЕРВЕРНЫЕ КОМАНДЫ
УДАЛЕННОЙ НАСТРОЙКИ



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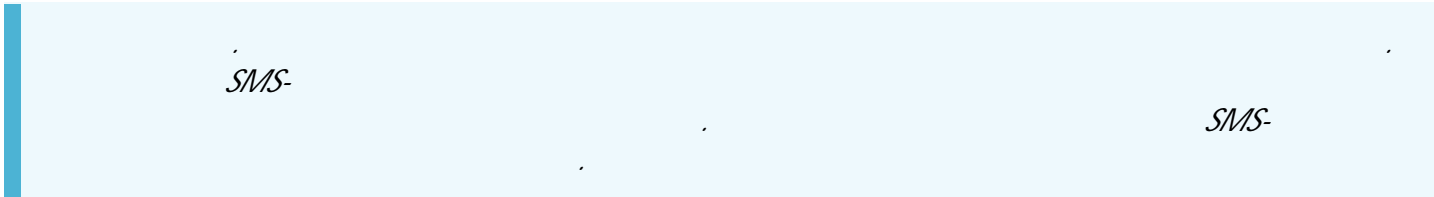
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```

SMS-
SMS-
SMS-
SMS-
SMS-
SMS-
SMS-
password COMMAND= ;

```

- password - GSMConf.exe. - 8
- COMMAND -
- -



```

serial(alias)#COMMAND=

```

- serial - ;
- alias - ;
- COMMAND - ;
- - SMS- (alias), #.

```

52500(Kamaz625)PERIODWR=5;

```

SMS-

- \Conf
 - .atc.
 -
 -
- : "processing" -
- ; "completed"-

COMMAND=parameters;

- COMMAND -
- parameters -

Log

```
> | 10:28:30 | PERIODSEND=60;
< | 10:28:32 | PERIODSEND=60;
! | 10:28:32 | CONF ACCEPTED
```

```
-----
> | 10:28:32 | PERIODWR=10;
< | 10:28:34 | PERIODWR=10;
! | 10:28:34 | CONF ACCEPTED
-----
```

(<),

(!).

SMS

SMS

'G',

GPERIODWR

SMS-

password GCOMMAND;

- password -
- COMMAND -
- G - 'G',

GSMConf.exe.

COMMAND;

- COMMAND -
- G - 'G',



GSUPERPASSWORD	
ENTERSPASSWORD	
EXITSPASSWORD	ENTERSPASSWORD ' .
HIDESTRINGS	(PIN- , . .)

GSUPERPASSWORD

-
- : 01.02-a4
- : ---.

:
GSUPERPASSWORD;

:
SUPERPASSWORD=level:author;

level	<ul style="list-style-type: none"> • 0- ; • 1- ; • 2-
author	,

():
GSUPERPASSWORD;

():
SUPERPASSWORD=0 : " " . ;

ENTERSPASSWORD

- (RESET,
-) EXITSPASSWORD.
- SMS.
- : 01.02-a4 .
- : ---.

ENTERSPASSWORD=sec_password;

ENTERSPASSWORD=sec;

sec_password	
sec	: 1 - , 0 -

(): ENTERSPASSWORD=qwer1234;

(): ENTERSPASSWORD=1;

EXITSPASSWORD

ENTERSPASSWORD.

- SMS.
- : 01.02-a4 .
- : ---.

EXITSPASSWORD;

EXITSPASSWORD; ():

EXITSPASSWORD; ():

HIDESTRINGS

(PIN- , . .).

- SMS.
- : 01.02-a4 .
- : GHIDESTRINGS.

:
 HIDESTRINGS=level;

	:
level	<ul style="list-style-type: none"> • 0 – ; • 1 – . <p>MODEM1PIN1=*; - PIN- 1)</p>

HIDESTRINGS 0
 (SUPERPASSWORD=0;); 1.

():
 HIDESTRINGS=1 ;

():
 HIDESTRINGS=1 ;

GVERSION			
FWUPDATE			
RESET			
EXTUPDATE			
UNLOCK			
GLOCK			
EXTVERSION		" "	" ,
	RS-485		
GSIM1ICCID	ICCID	SIM-	
GSIM1IMSI	IMSI	SIM-	
GMODEM IMEI	IMEI	GSM	
GMODEM ICCIDy	ICCID	SIM- GSM	
GMODEM IMSI	IMSI	SIM- GSM	
EXTSERIAL		" "	" ,
	RS-485		
LLSVERSIONSN	()		LLS
	" "		RS-485
TKAMVERSIONSN	()		TKAM
	" "		RS-485

TKKZVERSIONSN	(" " , RS-485)
AGCRVERSIONSN	TK-Cardreader Plus (" " , RS-485)
AGFCVERSIONSN	" " , RS-485
RTCTIMER	

GVERSION

- SMS.
- : 01.02-a4 .

GVERSION;

():
GVERSION;

():
VERSION=-01.02-a4;

FWUPDATE

- SMS.
- : 01.02-a4
- : GFWUPDATE.

:
FWUPDATE=update;

update	<ul style="list-style-type: none"> • 2 - ; • 1 - ; • 0 -
---------------	---

():
FWUPDATE=1 ;

():
FWUPDATE=1 ;

RESET

- SMS.
- : 01.02-a4 .
- : ---.

RESET;

(): RESET;

(): RESET;

EXTUPDATE

RS-485,

" "

- SMS.
- : 01.12-a1
- : ---.

EXTUPDATE=firmware,addr;

firmware	<ul style="list-style-type: none"> • 2- • 1- • 0-
addr	<p>RS-485</p> <p>HEX</p>

():
EXTUPDATE=1,213;

():
EXTUPDATE=1,213,AGFC-1.63;

UNLOCK

-
- SMS.
- : 01.12
- : ---.

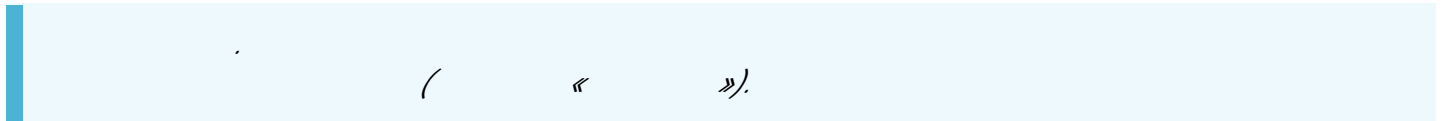
:
UNLOCK=func,unlock_key;

:
UNLOCK=func,answer;

func	
unlock_key	
answer	<ul style="list-style-type: none"> • unlock_key - • FALSE -

():
UNLOCK=1 ,GFJKG1M3 ;

():
UNLOCK=1 ,GFJKG1M3 ;



GLOCK

- SMS.
- : 01.12
- : ---.

GLOCK;

LOCK=status;

status	1 -	, 0 -	HEX,
		/ :	
	• 32...10 -	;	
	• 9 -		;
	• 8 -		TK-Monitoring;
	• 7...2 -	;	
	• 1 -		

():

GLOCK;

():

//

"

".

LOCK=00000001;

EXTVERSION

" "

RS-485.

- SMS.
- : 13.18
- : GEXTVERSION, EXTVERSION.

EXTVERSION=addr;

EXTVERSION=addr,version;

addr	RS-485 HEX (,)
version	, 16

():

EXTVERSION=213;

():

EXTVERSION=213,AGFC-1.63;

GSIM1ICCID

ICCID SIM-

- SMS.
- : 13.22

GSIM1ICCID;

SIM1ICCID=iccid;

iccid	iccid SIM-
-------	------------

GSIM1ICCID; ():

SIM1ICCID=8901260232714958936F;

GSIM1IMSI

IMSI SIM-

- SMS.
- : 13.22 .

:
GSIM1IMSI;

:
SIM1IMSI=IMSI;

IMSI	IMSI SIM-
------	-----------

():
GSIM1IMSI;

():
SIM1IMSI=310120265624299;

GMODEM IMEI

IMEI GSM

- SMS.
- : 13.22

:
GMODEM IMEI;

x	:1 2()
---	---------

():

GMODEM1IMEI ;

():

MODEM1IMEI=447402-51-543765-0 ;

GMODEMxMODEL

- SMS.
- : 13.32

:
GMODEM MODEL;

:
MODEMxMODEL=model;

x	:1 2()
model	()

():
GMODEM1MODEL;

():
MODEM1MODEL=SIM868;

GMODEMxFIRMWARE

- SMS.
- : 13.32

:
GMODEM FIRMWARE;

:
MODEMxFIRMWARE=frmw;

x	:1 2()
frmw	()

():
GMODEM1FIRMWARE;

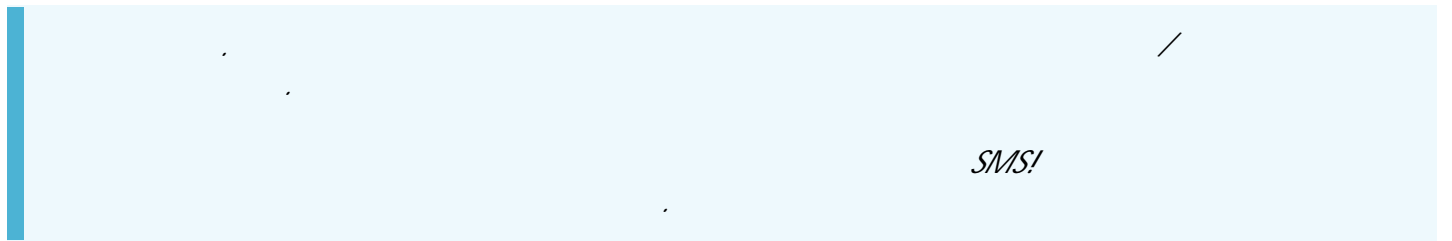
():
MODEM1FIRMWARE=1418B03SIM868E32_BLE_DS_TLS12;

MODEMxDISABLE

- SMS.
- : 13.29
- : GMODEMxDISABLE.

MODEMxDISABLE=m;

x	: 1 2 ()
m	: <ul style="list-style-type: none"> • 1 - • 0 -



():
MODEM1DISABLE=0;

():
MODEM1DISABLE=0;

GMODEM ICCIDy

ICCID SIM- GSM .

- SMS.
- : 13.22 .

:

GMODEM ICCIDy;

:

x	: 1 2 ()
y	SIM- : 1 - , 2 -

():

GMODEM1ICCID1;

():

MODEM1ICCID1=8901260232714958936F;

GMODEM IMSI

IMSI SIM- GSM .

- SMS.
- : 13.22 .

:

GMODEM IMSIy;

:

x	: 1 2 ()
y	SIM- : 1 - , 2 -

():

GMODEM1IMSI1;

():

MODEM1IMSI1=310120265624299;

EXTSERIAL

" "

RS-485.

- SMS.
- : 13.31
- : GEXTSERIAL, EXTSERIAL.

EXTSERIAL=addr;

EXTSERIAL=addr,serial;

addr	RS-485 HEX (,)
serial	

():
EXTSERIAL=213;

():
EXTSERIAL=213,10000000;

LLSVERSIONSN

" " , LLS ()
RS-485.

- SMS.
- : 13.31 .
- : GLLSVERSIONSN, LLSVERSIONSN.

:
LLSVERSIONSN=index;

:
LLSVERSIONSN=index,firmware,serial;

index	RS-485	(1 - 8)
firmware		
serial		

():
LLSVERSIONSN=0 ;

():
LLSVERSIONSN=0 ,TKLS-1.63 ,10000000 ;

TKAMVERSIONSN

" " , TKAM ()
RS-485.

- SMS.
- : 13.31 .
- : GTKAMVERSIONSN, TKAMVERSIONSN.

:
TKAMVERSIONSN=index;

:
TKAMVERSIONSN=index,firmware,serial;

index	RS-485	(1 - 8)
firmware		
serial		

():
TKAMVERSIONSN=0 ;

():
TKAMVERSIONSN=0 ,TKAM-1.63 ,10000000 ;

TKKZVERSIONSN

" " , RS-485. ()

- SMS.
- : 13.31 .
- : GTKKZVERSIONSN, TKKZVERSIONSN.

:
TKKZVERSIONSN=index;

:
TKKZVERSIONSN=index,firmware,serial;

index	RS-485	(1 - 8)
firmware		
serial		

():
TKKZVERSIONSN=0 ;

():
TKKZVERSIONSN=0 ,TKKZ-1.63 ,10000000 ;

AGCRVERSIONSN

TK-Cardreader Plus ()
RS-485.

- SMS.
- : 13.31 .
- : GAGCRVERSIONSN, AGCRVERSIONSN.

:
AGCRVERSIONSN=index;

:
AGCRVERSIONSN=index,firmware,serial;

index	RS-485	(1 - 8)
firmware		
serial		

():
AGCRVERSIONSN=0 ;

():
AGCRVERSIONSN=0 ,TKCR-1.63 ,10000000 ;

AGFCVERSIONSN

" " , RS-485.

- SMS.
- : 13.31 .
- : GAGFCVERSIONSN, AGFCVERSIONSN.

:
AGFCVERSIONSN=index;

:
AGFCVERSIONSN=index,firmware,serial;

index	RS-485	(1 - 8)
firmware		
serial		

():
AGFCVERSIONSN=0 ;

():
AGFCVERSIONSN=0 ,TKFC-1.63 ,10000000 ;

RTCTIMER

- SMS.
- : 13.10
- : GRTCTIMER.

RTCTIMER=time;

time	1	1970	, Unix Timestamp,	00:00:00
------	---	------	-------------------	----------

():
 RTCTIMER=1675245065;

():
 RTCTIMER=1675245065;

CONFREQUEST

- SMS.
- : 01.02-a4 .
- : ---.

CONFREQUEST=x;

	: 1, 2 3.
	(CONFREQUEST; CONFREQUEST=;)
x	<ul style="list-style-type: none"> • x 0 , • x 0 (SMS, USB . .),

():
CONFREQUEST=1;

():
CONFREQUEST=1;

GSM

TELNUM, SIM2TELNUM, MODEMmTELNUMx	SIM-	
PIN, SIM2PIN,MODEMmPINx	PIN	SIM-
APNFULL	GPRS	
APNROAMING	GPRS	
PERIODSEND , SIM2PERIODSEND, MODEMmPERIODSENDx	GSM	
PERIODROAMING, SIM2PERIODROAMING, MODEMmPERIODROAMING1	GSM	
FULLONLINE	"	"
ALIAS		
SMSFORMAT	SMS	
GSMSTAGE	GSM	
GSM2STAGE	GSM	2
GMODEMmSTATUS	GSM	
GSMmRESTART		
VOICETELNUM		
TELUPx		
RINGERLEVEL		
MICGAIN		
SPEAKERLEVEL		
VOICEMODEM		
MODEMmROAMINGMODEx		

MODEMmSTATUS	GSM
MODEMnSIMxGET	SMS

TELNUM, SIM2TELNUM, MODEMmTELNUMX

GSM

SIM- .

- SMS.
- : 01.02-a4 .
- : GTELNUM, GSIM2TELNUM, GMODEMmTELNUMx.

TELNUM=phone; - SIM- 1 1.
 SIM2TELNUM=phone; - SIM- 2 1.
 MODEMmTELNUMx=phone;

:

m	(1 - , 2 -)
x	SIM-
phone	(+7 8)

TELNUM SIM2TELNUM

():

TELNUM=+79518885647;

():

TELNUM=+79518885647;

PIN, SIM2PIN, MODEMmPINx

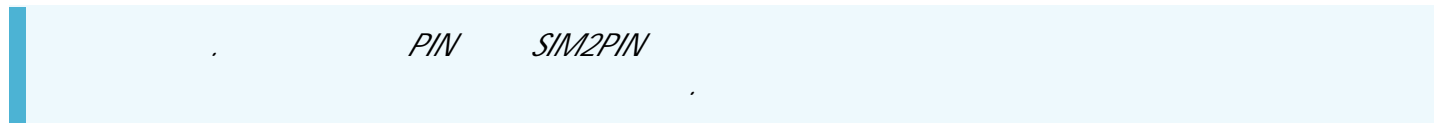
GSM

PIN SIM-

- SMS.
- : 01.02-a4 .
- : GPIN, GSIM2PIN, GMODEMmPINx.

- PIN=pin; - *SIM- 1;*
- SIM2PIN=pin; - *SIM- 2;*
- MODEMmPINx=pin;

m	(1 - , 2 -)
x	SIM-
pin	PIN-



PIN SIM2PIN

():

`PIN=0222;`

():

`PIN=0222;`

APNFULL

GSM

GPRS.

- SMS.
- : 01.02-a4 .
- : GAPNFULL, GSIM2APNFULL, GMODEM1APNx.

:

- APNFULL="apnname","apnuser","apnpassword"; - *SIM- 1*
- SIM2APNFULL="apnname","apnuser","apnpassword"; - *SIM- 2*
- MODEM1APNx="apnname","apnuser","apnpassword";

:

x	SIM-
apnname	GPRS
apnuser	
apnpassword	

():

```
MODEM1APN1="mts.internet.ru","mts","mts";
```

():

```
MODEM1APN1="mts.internet.ru","mts","mts";
```

APNROAMING

GSM

GPRS

- SMS.
- : 01.02-a4 .
- : GAPNROAMING, GSIM2APNROAMING, GMODEM1APNROAMINGx.

- APNROAMING="apnname","apnuser","apnpassword"; - *SIM- 1.*
- SIM2APNROAMING="apnname","apnuser","apnpassword"; - *SIM- 2.*
- MODEM1APNROAMINGx="apnname","apnuser","apnpassword";

x	SIM-
apnname	GPRS
apnuser	
apnpassword	

```
( ):
MODEM1APNROAMING1="mts.internet.ru","mts","mts";
```

```
( ):
MODEM1APNROAMING1="mts.internet.ru","mts","mts";
```

PERIODSEND, SIM2PERIODSEND, MODEMmPERIODSENDx

GSM

GSM

- SMS.
- : 01.02-a4 .
- : GPERIODSEND, GSIM2PERIODSEND, GMODEMmPERIODSENDx.

- PERIODSEND=time; - SIM 1;
- SIM2PERIODSEND=time; - SIM 2;
- MODEMmPERIODSENDx=time;

m	(1 - , 2 -)
x	SIM-
time	10 43200

PERIODSEND SIM2PERIODSEND

():
MODEM1PERIODSEND1=30 ;

():
MODEM1PERIODSEND1=30 ;

PERIODROAMING, SIM2PERIODROAMING, MODEMmPERIODROAMING1

GSM

GSM

- SMS.
- : 01.02-a4
- : GPERIODROAMING, GSIM2PERIODROAMING, GMODEMmPERIODROAMING1.

- PERIODROAMING=time; - SIM 1,
- SIM2PERIODROAMING=time; - SIM 2,
- MODEMmPERIODROAMING1=time;

m	(1 - , 2 -)
x	SIM-
time	10 43200

PERIODROAMING SIM2PERIODROAMING

():
 PERIODROAMING=300 ;

():
 PERIODROAMING=300 ;

FULLONLINE

GSM

" "

- ()
- , SMS.
- : 01.02-a4
- : GFULLONLINE.

:

FULLONLINE=a;

:

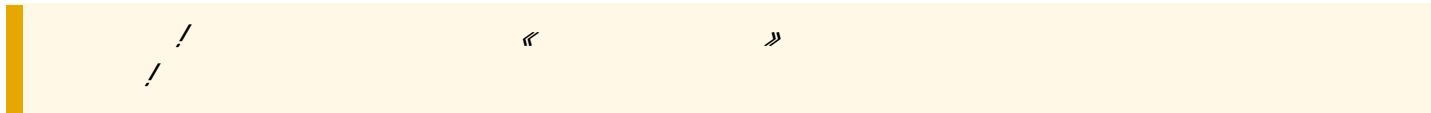
a	<ul style="list-style-type: none"> • 0- ; • 1-
---	--

():

FULLONLINE=0 ;

():

FULLONLINE=0 ;



ALIAS

GSM

- SMS.
- : 01.02-a4
- : GALIAS.

ALIAS=alias;

alias	(8)	.	()	(0 9).
-------	-------	---	-----	---------

():
ALIAS=Taxi023;

():
ALIAS=Taxi023;

SMSFORMAT

GSM

- SMS.
- : 01.02-a4
- : GSMSFORMAT.

:
SMSFORMAT=link;

link	SMS, AGLAT%, - AGLON%: Google-, Google-, - , - .
------	--

():

SMSFORMAT=http://maps.yandex.ru/?text=%AGLAT%,%AGLON%&l=map;

():

SMSFORMAT=http://maps.yandex.ru/?text=%AGLAT%,%AGLON%&l=map;

GGSMSTAGE

GSM

GSM

- SMS.
- : 01.10-a2

GGSMSTAGE;
GGSMSTAGE=a,b;

a b

SIM-

(.)

a	1 -
b	<p>SIM1/SIM2:</p> <ul style="list-style-type: none"> • 0 - SIM1; • 1 - SIM2.

GGSMSTAGE=p1,p2,p3,p4,p5,p6;

p1	GSM
p2	SIM (0 - SIM1, 1 - SIM2)
p3	" "
p4	<p>RSSI:</p> <ul style="list-style-type: none"> • 0 -115 dBm or less; • 1 -111 dBm; • 2...30 -110... -54 dBm; • 31 -52 dBm ; • 99
p5	<p>BER () . 0..7:</p> <ul style="list-style-type: none"> • 0 - ; • 7 - ; • 99 -

p6	
----	--

():

GGSMSTAGE;

GGSMSTAGE=0,0;

():

GSMSTAGE=3,0,3,29,1,0;

GGSM2STAGE

GSM

GSM 2.

- SMS.
- : 13.29

GGSM2STAGE;
GGSM2STAGE=a,b;

a b

SIM

(.)

a	1 -
b	<p>SIM1/SIM2:</p> <ul style="list-style-type: none"> • 0 - SIM1; • 1 - SIM2.

GSMSTAGE=p1,p2,p3,p4,p5,p6;

p1	GSM
p2	SIM (0 - SIM1, 1 - SIM2).
p3	" "
p4	<p>RSSI:</p> <ul style="list-style-type: none"> • 0 -115 dBm or less; • 1 -111 dBm; • 2...30 -110... -54 dBm; • 31 -52 dBm ; • 99
p5	<p>BER () . 0..7:</p> <ul style="list-style-type: none"> • 0 - ; • 7 - ; • 99 -

p6	.
----	---

():

GGSM2STAGE;

GGSM2STAGE=0,0;

():

GSM2STAGE=3,0,3,29,1,0;

GMODEMmSTATUS

GSM

GSM

- SMS.
- : 01.02-a4

GMODEMmSTATUS;

MODEMmSTATUS=RSSI,Q,S,P,G,R;

m	(1 - , 2 -);
RSSI	RSSI (0...-127)
Q	signalQualit (0..99)
S	SIM (1 2)
P	(0 1)
G	GPRS (0 1)
R	(0 1)

GMODEM1STATUS;

MODEM1STATUS=0,85,1,1,1,0;

GSMmRESTART

GSM

(GSMSTAGE MODEMmSTATUS)

- SMS.
- : 01.02-a4 .

GSMmRESTART;
 GSMmRESTART;

m	(1 - , 2 -);
status	: <ul style="list-style-type: none"> • 1 - ; • 0 -

():
 GSM1RESTART ;

():
 GSM1RESTART=1 ;

VOICETELNUM

GSM

- SMS.
- : 13.16
- : GVOICETELNUM.

:
VOICETELNUM=phone;

phone	(+7)
-------	--------

():
VOICETELNUM=+73512113040;

():
VOICETELNUM=+73512113040;

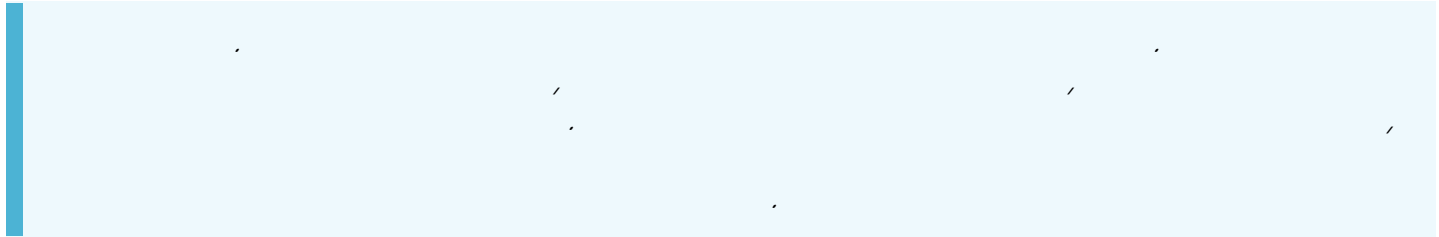
TELUPx

GSM

- SMS.
- : 13.16
- : GTELUPx.

:
TELUPx=phone;

x	, 1..2
phone	



():
TELUP1=2113040;

():
TELUP1=2113040;

RINGERLEVEL

GSM

- SMS.
- : 13.16
- : GRINGERLEVEL.

:
RINGERLEVEL=level;

level	, %, 0..100
-------	-------------

():
RINGERLEVEL=70 ;

():
RINGERLEVEL=70 ;

MICGAIN

GSM

- SMS.
- : 13.16
- : GMICGAIN.

:
 MICGAIN=level;

level	, %, 0..100
-------	-------------

():
 MICGAIN=70 ;

():
 MICGAIN=70 ;

SPEAKERLEVEL

GSM

- SMS.
- : 13.16
- : GSPEAKERLEVEL.

:
 SPEAKERLEVEL=level;

level	,	, 0..100
-------	---	----------

():
 SPEAKERLEVEL=70 ;

():
 SPEAKERLEVEL=70 ;

VOICEMODEM

GSM

- SMS.
- : 13.29
- : GVOICETELNUM.

:
VOICEMODEM=m;

m	(1- , 2-)
---	------------

():
VOICEMODEM=1 ;

():
VOICEMODEM=1 ;

MODEMmROAMINGMODEx

GSM

- SMS.
- : 01.02-a4
- : GMODEMmROAMINGMODEx.

MODEMmROAMINGMODEx=mode;

m	(1 - , 2 -)
x	SIM-
mode	R - N () -

MODEMmPERIODROAMINGx, GPRS. MODEMmPERIODSENDx 5

5, GPRS

():
MODEM1ROAMINGMODE1=N;

():
MODEM1ROAMINGMODE1=N;

MODEMmSTATUS

GSM

GSM

- SMS.
- : 01.02-a4

GMODEMmSTATUS;

MODEMmSTATUS=RSSI,Q,S,P,G,R;

m	(1 - , 2 -)
RSSI	RSSI (0..-127)
Q	signalQuality (0..99)
S	SIM- (1 2)
P	(0 - , 1 -)
G	GPRS (0 - , 1 -)
R	(0 - , 1 -)

():

GMODEM1STATUS;

():

MODEM1STATUS=0,85,1,1,1,0;

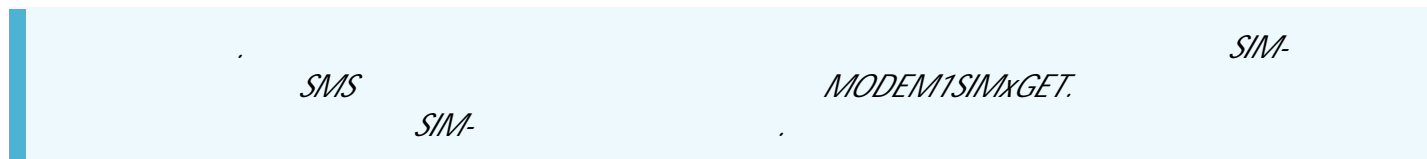
MODEMmSIMxGET

GSM

- SMS.
- : 13.26
- :---

MODEMmSIMxGET=receptient;

m	(1 - , 2 -)
x	SIM-
receptient	(+7 8)



():
 MODEM1SIM1GET=+79554443322;

():
 MODEM1SIM1GET=+79554443322;

STAGE_GSM_OFF	0	
STAGE_GSM_ON	1	
STAGE_GSM_WORKING	2	
STAGE_GSM_PIN_ENTERED	3	PIN
STAGE_GSM_CONFIG_ENTERED	4	GSM
STAGE_GSM_NET_REGISTERED	5	
STAGE_GSM_GPRS_PRESENT	6	GPRS
STAGE_GSM_GPRS_ON	7	GPRS
STAGE_GSM_SERVER_CONNECTED	8	
STAGE_GSM_SERVER_SENT	9	
STAGE_GSM_ANSWER_RECEIVED	10	
STAGE_GSM_ERROR_POWER	65536	
STAGE_GSM_ERROR_PG	65537	
STAGE_GSM_ERROR_NOT_ANSWER	65538	
STAGE_GSM_ERROR_NO_SIM	65539	SIM-
STAGE_GSM_ERROR_WRONG_PIN	65540	PIN-
STAGE_GSM_ERROR_NEED_PUK	65541	PUK-
STAGE_GSM_ERROR_SIM_ERROR	65542	SIM-
STAGE_GSM_ERROR_BSEND_TIMEOUT	65543	
STAGE_GSM_ERROR_BSEND_CHECK	65544	

STAGE_GSM_ERROR_LAST_REGISTER	65545	GSM
STAGE_GSM_ERROR_CGATTT_COUNTER	65546	GPRS
STAGE_GSM_ERROR_SGACT_COUNTER	65547	GPRS
STAGE_GSM_ERROR_SO_COUNTER	65548	
STAGE_GSM_ERROR_SD_COUNTER	65549	
STAGE_GSM_ERROR_SEND_TRIES	65550	
STAGE_GSM_ERROR_OPERATOR_FORBIDDEN	65551	()
STAGE_GSM_ERROR_NOT_SERVICED	65552	
STAGE_GSM_ERROR_WRONG_PASSWORD1	65553	

SIM

MODEMmSIMxHOMEn	SIM-
MODEMmSIMxPRIORITYn	SIM-
MODEMmSIMxFORBIDDENn	SIM-
MODEMmSIMxSELECTMODE	

MODEMmSIMxHOMEn

SIM

SIM- .

- SMS.
- : 13.18 .
- : GMODEM1SIMxHOMEn.

:

MODEMmSIMxHOMEn=operator;

:

m	(1 - , 2 -)
x	SIM- (1,2)
n	(01..25)
operator	(MNC+MCC) SIM-

():

MODEM1SIM1HOME01=25001;

():

MODEM1SIM1HOME01=25001;

MODEM1SIMxPRIORITYn

SIM

SIM- .

- SMS.
- : 13.18 .
- : GMODEM1SIMxPRIORITYn.

:

MODEMmSIMxPRIORITYn=operator;

:

m	(1 - , 2 -)
x	SIM- (1,2)
n	(01..75).
operator	(MNC+MCC) SIM- . 0

():

MODEM1SIM1PRIORITY01=25002;

():

MODEM1SIM1PRIORITY01=25002;

MODEM1SIMxFORBIDDENn

SIM

SIM- .

- SMS.
- : 13.18 .
- : GMODEM1SIMxFORBIDDENn.

:

MODEMmSIMxFORBIDDENn=operator;

:

m	(1 - , 2 -)
x	SIM- (1,2)
n	(01..25)
operator	(MNC+MCC) SIM-

():

MODEM1SIM1FORBIDDEN01=25002;

():

MODEM1SIM1FORBIDDEN01=25002;

MODEM1SIMxSELECTMODE

SIM

- SMS.
- : 13.18
- : GMODEM1SIMxSELECTMODE.

MODEMmSIMxSELECTMODE=mode;

m	(1 - , 2 -)
x	SIM- (1,2)
mode	<ul style="list-style-type: none"> • 0 - GPRS ; • 1 - GPRS ; • 2 - GPRS

():
MODEM1SIM1SELECTMODE=2 ;

():
MODEM1SIM1SELECTMODE=2 ;

Wi-Fi

Wi-Fi

-GX Wi-Fi.

WIFISSID	SSID ()	Wi-Fi
WIFIKEY	()	Wi-Fi
WIFIPERIODSEND		Wi-Fi
WIFIRESTART		Wi-Fi
WIFICONF		Wi-Fi
GWIFIMAC	MAC	Wi-Fi
GWIFISTAGE		Wi-Fi
GWIFILISTSSID	C	Wi-Fi
WIFISCANSSID		Wi-Fi

WIFISSID

Wi-Fi

SSID () Wi-Fi.

SMS.

: 13.22

: GWIFISSID.

:

WIFISSID=ssid;

:

ssid	SSID ()	Wi-Fi,	36
------	----------	--------	----

():

WIFISSID=technokom;

():

WIFISSID=technokom;

WIFIKEY

Wi-Fi

()

Wi-Fi.

- SMS.
- : 13.22 .
- : GWIFIKEY.

:

WIFIKEY=key;

:

key	()	Wi-Fi, 64
-----	-----	-----------

():

WIFIKEY=technopass1;

():

WIFIKEY=technopass1;

WIFIPERIODSEND

Wi-Fi

Wi-Fi.

SMS.

: 13.22 .

: GWIFIPERIODSEND.

:

WIFIPERIODSEND=time;

:

time	, 10...43200 (12)
------	--------------------

():

WIFIPERIODSEND=30 ;

():

WIFIPERIODSEND=30 ;

WIFIESTART

Wi-Fi

Wi-Fi.

- SMS.
- : 13.22 .
- : ---.

:

WIFIESTART;

():

WIFIESTART;

():

WIFIESTART;

WIFICONF

Wi-Fi

Wi-Fi.

SMS.

: 13.22 .

: GWIFICONF.

:

WIFICONF=dhcp,ip,mask,gw,dns;

:

dhcp	IP (1 - , 0 -)
ip	IP
mask	
gw	
dns	DNS

():

WIFICONF=0,192.168.6.101,255.255.255.0,192.168.6.1,192.168.6.1;

():

WIFICONF=0,192.168.6.101,255.255.255.0,192.168.6.1,192.168.6.1;

GWIFISTAGE

Wi-Fi

Wi-Fi

- SMS.
- : 13.22
- : GWIFISTAGE WIFISTAGE.

GWIFISTAGE;

WIFISTAGE=cur_stage,max_stage,rssi,channel,ip,mac;

<p>cur_stage</p>	<p>Wi-Fi:</p> <ul style="list-style-type: none"> • 0- Wi-Fi ; • 1- ; • 2- ; • 3- ; • 4- ; • 5- ; • 6- ; • 7- ; • 8- ; • 9-
<p>max_stage</p>	<p>Wi-Fi</p> <ul style="list-style-type: none"> • 0- Wi-Fi ; • 1- ; • 2- ; • 3- ; • 4- ; • 5- ; • 6- ; • 7- ; • 8- ; • 9-

rss	Wi-Fi
channel	Wi-Fi
ip	IP
mac	MAC

():

GWIFISTAGE;

():

WIFISTAGE=8,9,-51,6,192.168.6.0,8a:2a:a8:c4:9b:7d;

GWIFILISTSSID

Wi-Fi

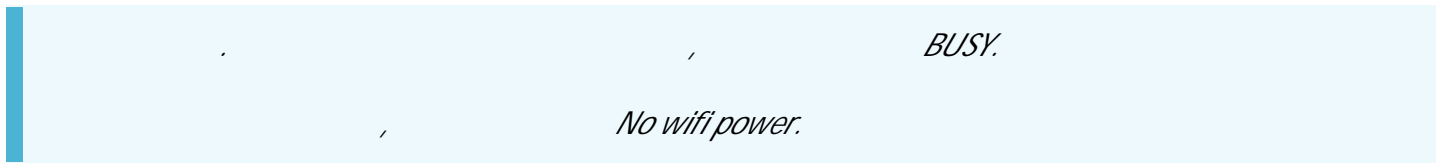
Wi-Fi.

- SMS.
- : 13.33 .
- : GWIFILISTSSID.

GWIFILISTSSID;

WIFILISTSSID=s1,s2,s3,s4,s5,s6,s7,s8;

s1, s2 ... s8	1-8 , 36
---------------	----------



(): GWIFILISTSSID;

(): WIFILISTSSID=TKGuest,AGWiFi,Developer,,,,;

WIFISCANSSID

Wi-Fi

Wi-Fi.

- SMS.
- : 13.33 .
- : WIFISCANSSID.

WIFISCANSSID;

No wifi power.

WIFISCANSSID; ():

WIFISCANSSID=OK; ():

GLONASSMODE	
DYNAMICMODE	
GNSTIME	
GNSCONTROL	
EXTRECEIVER	RS-485
NAVDATUM	()
NAVMINELEVATION	()
NAVPOWEROFFTIME	,
NAVTIMEOUT	,

GLONASSMODE

- SMS.
- : 01.02-a4 .
- : GGLONASSMODE.

:
GLONASSMODE=mode;

mode	<ul style="list-style-type: none"> • 5 - +GPS • 6 - • 7 - GPS

():
GLONASSMODE=5 ;

():
GLONASSMODE=5 ;

DYNAMICMODE

- SMS.
- : 01.02-a4
- : GDYNAMICMODE.

:
DYNAMICMODE=x;

x	• 0-	0
	• 2-	0
	m/s.	
	• 3-	
	• 4-	
	• 5-	0.
	• 6-	
	• 7-	
	• 8-	
	• 9-	

():
DYNAMICMODE=2 ;

():
DYNAMICMODE=2 ;

GNSTIME

- SMS.
- : 01.02-a4
- : GGNSTIME, GNSTIME.

GNSTIME=time_t;

time_t	, time_t. 0.
---------------	-----------------

time_t
00:00, 1 1970 GMT.

():
GGNSTIME ;

():
GNSTIME=1643871799 ;

GNSCONTROL

- SMS.
- : 01.02-a4
- : GGNSCONTROL, GNSCONTROL.

GNSCONTROL=receiverSource,status,antennaStatus,posMode,gnssMode,numSV,hDop,ttTime,latitude,idNS,longitude,idEW,speed,alt,course;

receiverSource	(0 - , 1 -)
status	(A - , V -)
antennaStatus	(0 - , 1 - , 2 - , 3 -))
posMode	(A - , D - , E - , N -)
gnssMode	(0 - , 1 - GPS, 2 - , 3 -)
numSV	
hDop	HDOP ()
ttTime	, time_t (POSIX time, 1 1970). 0
latitude	.
idNS	(N) (S)
longitude	.
idEW	(E) (W)
speed	, /
alt	,
course	,

():

GNSCONTROL;

():

GNSCONTROL=0,A,1,A,3,12,0.9,1650538008,5510.4168000,N,6123.0285600,E,0.0,233.6,0.0;

EXTRECEIVER

RS-485.

- SMS.
- : 01.12 .
- : GEXTRECEIVER.

:
EXTRECEIVER=mode;

	:
mode	<ul style="list-style-type: none"> • 0 - ; • 1,2 - +GPS; • 3 - ; • 4 - GPS

():
EXTRECEIVER=2 ;

():
EXTRECEIVER=2 ;

NAVDATUM

() .

- SMS.
- : 13.29 .
- : GNAVDATUM.

:

NAVDATUM=x;

:

	() :
x	<ul style="list-style-type: none"> • 84 - WGS- 84; • 90 - - 90

():

NAVDATUM=84 ;

():

NAVDATUM=84 ;

NAVMINELEVATION

()

- SMS.
- : 13.29
- : GNAVMINELEVATION.

:
NAVMINELEVATION=x;

x	() (0..90)
---	----------------

():
NAVMINELEVATION=5 ;

():
NAVMINELEVATION=5 ;

NAVTIMEOUT

NAVTIMEOUT

- SMS.
- : 13.33
- : GNAVTIMEOUT.

NAVTIMEOUT=t;

t	(60..43200)
---	-------------

():

NAVTIMEOUT=720 ;

():
NAVTIMEOUT=720 ;

NAVPOWEROFFTIME

NAVPOWEROFFTIME

- SMS.
- : 13.29
- : GNAVPOWEROFFTIME.

NAVPOWEROFFTIME=t;

t	(0..200000000)
---	----------------

NAVPOWEROFFTIME=200000000;

NAVPOWEROFFTIME=200000000;

MODEWR	
PERIODWR	()
MODEWIDE	
MODESTICK	
ADAPTIVESENSE	
DISTCALC	
DISTANCE	
COMPACTn	

MODEWIDE

- ()
- SMS.
- : 01.02-a4
- : GMODEWIDE.

MODEWIDE=status;

status	<ul style="list-style-type: none"> • 0- • 1-
--------	--

():
MODEWIDE=1 ;

():
MODEWIDE=1 ;

PERIODWR

()

- ().
- ().
- SMS.
- : 01.02-a4
- : GPERIODWR.

PERIODWR=period;

period	()	1
600	,	1 600

():
PERIODWR=10 ;

():
PERIODWR=10 ;

MODEWR

- SMS.
- : 01.02-a4
- : GMODEWR.

MODEWR=mode;

mode	<ul style="list-style-type: none"> • A – • N –
------	--

MODEWR=A;

MODEWR=A;

MODESTICK

- SMS.
- : 13.32
- : GMODESTICK.

:
MODESTICK=status;

status	<ul style="list-style-type: none"> • 0 - • 1 -
--------	--

():
MODESTICK=1 ;

():
MODESTICK=1 ;

ADAPTIVESENSE

- SMS.
- : 01.02-a4
- : GADAPTIVESENSE.

:
ADAPTIVESENSE=sense;

		, 0...500.	: 100.
sense	•	sense=100,	,
		()	
		6 - 5 (9	/).
	•	3 (50%), 6 / (60%	50% + 60%
	(sens=100).		
•	50		
	3 2,5		
	200		
	12 10		
•			

():
ADAPTIVESENSE=200 ;

():
ADAPTIVESENSE=200 ;

DISTCALC

- ()
- SMS.
- : 01.02-a4
- : GDISTCALC.

DISTCALC=status;

status	<ul style="list-style-type: none"> • 0 - ; • 1 -
--------	--

():

`DISTCALC=1;`

():

`DISTCALC=1;`

DISTANCE

- SMS.
- : 01.02-a4
- : GDISTANCE. DISTANCE.

:
DISTANCE=distance;

:

distance	
----------	--

:
DISTANCE=distance;

:

distance	
----------	--

():
DISTANCE=241542000;
GDISTANCE;

():
DISTANCE=241542000.0;

COMPACTn

- (1 4) -
- SMS.
- : 01.02-a4
- : GCOMPACTn.

COMPACTn=compact_data;

n	, 1..4.
compact_data	HEX (), 0 256 , "1" GSMConf 5.

()

" " ()

()

():

```
COMPACT1=06 ;
COMPACT3=FEFFFF ;
```

():

```
COMPACT1=06 ;
COMPACT3=FEFFFF ;
```

:

“ ”

ADAPTIVE	
ADAPTIVECONTROL	
GLEVELVALUE	
GLONGVALUE	
GDISCRVALUE	
GENERICVALUE	

ADAPTIVE

- SMS.
- : 01.02-a4
- : GADAPTIVEx.



- : ADAPTIVEx=a,b,c,d,e,f,g,h,i,j;

x	, 1...32
a	: 1 - (ADAPTIVE_TYPE_LEVEL <u>AdaptiveType</u>)
b	(<u>ParamGroup</u>): • 1 - (<u>PARAM_GROUP_LEVEL</u>); • 2 - MODBUS (<u>PARAM_GROUP_GENERIC</u>)
c	" (<u>LevelId</u> , <u>1...198</u>) " MODBUS" (<u>GenericParamsId</u> , <u>1..100</u>)
d	, , d > 0
e	, hex, 0x: • 0x1 - , • 0x2 - , • 0x4 - (,), • 0x8 - (,). hex (1 + 2, . . . 3)
f	, ,

: GADAPTIVEx;

"UNSUPPORTED_PARAMETER" *x*

():

ADAPTIVE1=1,1,1,5,8,100,50,4000,50,100;

():

ADAPTIVE1=1,1,1,5,8,100.0,50.0,4000.0,50.0,100.0;

/

ADAPTIVECONTROL

- SMS.
- : 01.09
- : ADAPTIVECONTROL, GADAPTIVECONTROL.

GADAPTIVECONTROLx;

ADAPTIVECONTROLx=a,b,c,d;

x	, 1...32
a	, AdaptiveType
b	: 0 - , 1 -
c	<p>a: hex, "0x".</p> <ul style="list-style-type: none"> • a = ADAPTIVE_TYPE_LEVEL, AdaptiveLevelEventFlags_doc. • a = ADAPTIVE_TYPE_DISCRETE, AdaptiveDiscreteEventFlags_doc. • = ADAPTIVE_TYPE_NO , - c 00000000
d	<p>a:</p> <ul style="list-style-type: none"> • a = ADAPTIVE_TYPE_LEVEL, ; • a = ADAPTIVE_TYPE_DISCRETE, hex "0x"; • a = ADAPTIVE_TYPE_NO , - d 0

"UNSUPPORTED_PARAMETER". x

():
GADAPTIVECONTROL32;

():
|

//

ADAPTIVECONTROL32=0,0,00000000,0;

//

ADAPTIVECONTROL32=1,1,00000006,8.501539;

//

ADAPTIVECONTROL32=2,1,00000001,1;

GLEVELVALUE

- SMS.
- : 01.09

GLEVELVALUEx;

[LevelId](#)

GLEVELVALUEx=1.

LEVELVALUEx=y,z;

x	<u>LevelId</u>
y	: 0-
z	, 1-

x

"UNSUPPORTED_PARAMETER"

():

GLEVELVALUE1 ;
GLEVELVALUE1=1 ;

():

GLEVELVALUE1=0 , 10.230 ;
GLEVELVALUE1=0 , 10.230 : LEVEL_LLS1 ;

GLONGVALUE

- SMS.
- : 01.09

GLONGVALUE_x;

LongParmID

GLONGVALUE_x=1.

GLONGVALUE_{x=y,z};

x	<u>LongParmID</u>
y	: 0- , 1-
z	,

"UNSUPPORTED_PARAMETER" *x*

():

GLONGVALUE4 ;
GLONGVALUE4=1 ;

():

LONGVALUE4=0,0.000 ;
LONGVALUE4=0,0.000:TOTAL_VEHICLE_DISTANCE_SPN_917 ;

GDISCRVALUE

- SMS.
- :01.09

GDISCRVALUEx;

DiscrParmID

GDISCRVALUE=1.

GDISCRVALUEx=y,z;

x	<u><i>DiscrParmID</i></u>
y	:0-
z	,1-

"UNSUPPORTED_PARAMETER"

```

( ):
GDISCRVALUE145;
GDISCRVALUE145=1;

( ):
DISCRVALUE145=1,0;
DISCRVALUE145=1,0:EDDP_ANY_EVENT;

```

GENERICVALUE

- SMS.
- : 01.09

GGENERICVALUEx;

GGENERICVALUEx=y,z,v;

x	<u>GenericParamID</u>
y	: 0 - , 1 -
z	hex "0x", . <u>GenericParamType</u>
v	<p>z:</p> <ul style="list-style-type: none"> • z == GENERIC_PARAM_UINT - uint dec; • z == GENERIC_PARAM_INT int dec; • z == GENERIC_PARAM_FLOAT - float , 4 <p>;</p> <ul style="list-style-type: none"> • z == GENERIC_PARAM_BITFIELD - uint hex "0x". <p>typeAct</p> <p>GENERIC_PARAM_INVALID_TYPE, val - 0.</p>

"UNSUPPORTED_PARAMETER" x

```

( ):
GGENERICVALUE45;
GGENERICVALUEx45=1;

( ):
GGENERICVALUE=1, 0;
GGENERICVALUEx45=1, 0: EDDP_ANY_EVENT;
    
```


AdaptiveType

ADAPTIVE_TYPE_NO	0,
ADAPTIVE_TYPE_LEVEL	1,
ADAPTIVE_TYPE_DISCRETE	2,

AdaptiveLevelEvent

ADD_LEVEL_EVENT_BAND_CHANGED_TO_LOW	0,
ADD_LEVEL_EVENT_BAND_CHANGED_TO_NORMAL	1,
ADD_LEVEL_EVENT_BAND_CHANGED_TO_HIGH	2,
ADD_LEVEL_EVENT_ADAPTIVE	3,

ParamGroup

PARAM_GROUP_LEVEL	1,
PARAM_GROUP_GENERIC	2,
PARAM_GROUP_DISCRETE	3,

PASSWORD	
IP, PARALLELIP, SRVxMAINIP	IP
SRVxMAINDOMAIN, MAINDOMAIN, PARALLELDOMAIN	
SRVxTRANSPORT, MAINTRANSPORT, PARALLELTRANSPORT	
SRVxMAINPORT, PORT, PARALLELPORT	
SRVxRESIP	IP
SRVxRESDOMAIN	
SRVxRESPORT	
SRVxCOMMAND	
SRVxMAINMEDIA	
SRVxRESMEDIA	
SRVxSTATUS	
SRVxDISCONNECT	
DATASEND	
SENDALLOG	
FILESERVER	()
SRVSTATUSLED	STATUS1
FILEMEDIA	(, AGL-)

:

TID	(terminal ID)
VEHICLE_VHT	VHT -
VEHICLE_VPST	VPST -
VEHICLE_VIN	VIN (Vehicle Identification Number) EGTS

PASSWORD

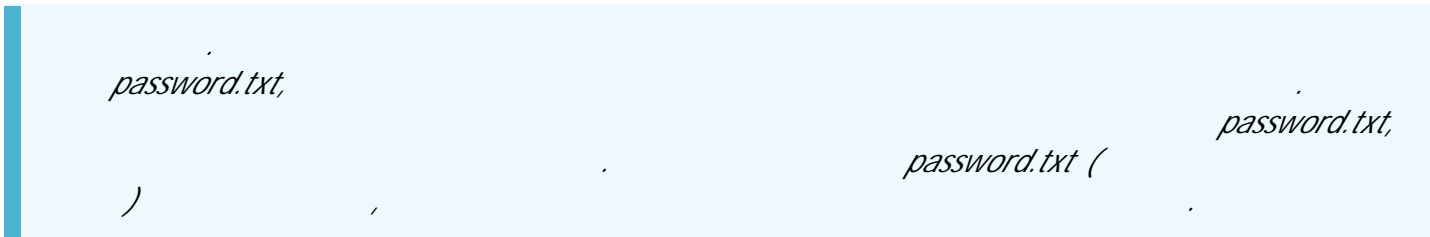
- SMS.
- : 01.02-a4
- : ---.

:
 PASSWORD=new_password;

new_password	0 9
--------------	-----

():
 PASSWORD=1234asdf;

():
 PASSWORD=1234asdf;



IP, PARALLELIP, SRVxMAINIP

IP

- SMS.
- : 01.02-a4
- : GIP, GPARALLELIP, GSRVxMAINIP.

:

- IP=ip:port; - 1;
- PARALLELIP=ip:port; - 2;
- SRVxMAINIP=ip:port;

:

x	: 1, 2 3
ip	IP 255.255.255.255
port	port IP

IP PARALLELIP

:

IP=225.225.225.225:65535;

SRV2MAINIP=8.8.8.8:2225;

:

IP=225.225.225.225:65535;

SRV2MAINIP=8.8.8.8:2225;

SRVxMAINDOMAIN, MAINDOMAIN, PARALLELDOMAIN

- SMS.
- : 01.02-a4
- : GSRVxMAINDOMAIN, GMAINDOMAIN, GPARALLELDOMAIN.

- MAINDOMAIN=domain:port; - 1;
- PARALLELDOMAIN=domain:port; - 2;
- SRVxMAINDOMAIN=domain:port;

x	: 1, 2 3
domain	
port	port IP

MAINDOMAIN PARALLELDOMAIN

():
SRV1MAINDOMAIN=office.tk-chel.ru:2225;

():
SRV1MAINDOMAIN=office.tk-chel.ru:2225;

SRVxTRANSPORT, MAINTRANSPORT, PARALLELTRANSPORT

- SMS.
- : 01.02-a4
- : GSRVxTRANSPORT, GMAINTRANSPORT, GPARALLELTRANSPORT

- MAINTRANSPORT=transport; - 1;
- PARALLELTRANSPORT=transport; - 2;
- SRVxTRANSPORT=transport;

x	: 1, 2 3
transport	<ul style="list-style-type: none"> • 0 – () – " " • 1 – EGTS (-) – (285). • 2 – TK.Monitoring () - " " TKmonitoring.com. • 3 – AGTP () – " " () . «AGTP» 5.0 • 4 – AGPP (Public Protocol) –

MAINTRANSPORT PARALLELTRANSPORT

```

( ):
SRV1TRANSPORT=2;
( ):
SRV1TRANSPORT=2;
    
```

SRVxRESIP

IP

- SMS.
- : 01.02-a4
- : GSRVxRESIP.

SRVxRESIP=ip:port;

x	: 1, 2 3.
ip	IP 255.255.255.255.
port	port IP

SRV2RESIP=9.9.9.9:2225;

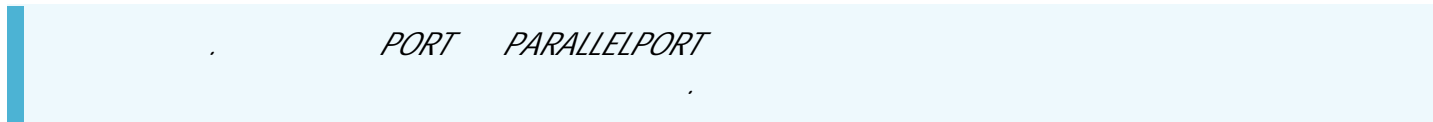
SRV2RESIP=9.9.9.9:2225;

SRVxMAINPORT, PORT, PARALLELPORT

- SMS.
- : 01.02-a4
- : GSRVxMAINPORT, GPORT, GPARALLELPORT.

- PORT=port; - 1:
- PARALLELPORT=port; - 2;
- SRVxMAINPORT=port;

x	: 1, 2 3
port	



```

( ):
SRV1MAINPORT=2225;

( ):
SRV1MAINPORT=2225;

```

SRVxRESDOMAIN

- SMS.
- : 01.02-a4
- : GSRVxRESDOMAIN.

SRVxRESDOMAIN=domain:port;

x	: 1, 2 3
domain	
port	port IP

():
SRV1RESDOMAIN=ag2.tk-chel.ru:2225;

():
SRV1RESDOMAIN=ag2.tk-chel.ru:2225;

SRVxRESPORT

- SMS.
- : 01.02-a4
- : GSRVxRESPORT.

SRVxRESPORT=port;

x	: 1, 2 3
port	

():
SRV1RESPORT=2226;

():
SRV1RESPORT=2226;

SRVxCOMMAND

- SMS.
- : 01.02-a4 .
- : GSRVxCOMMAND.

:
SRVxCOMMAND=permit;

x	: 1, 2 3
permit	: • 1 - ; • 0 -

():
SRV1COMMAND=1 ;

():
SRV1COMMAND=1 ;

SRVxMAINMEDIA

(-GX Wi-Fi).

- SMS.
- : 13.22 .
- : GSRVxMAINMEDIA.

:
 SRVxMAINMEDIA=media;

x	(1, 2 3)
media	<p>,</p> <ul style="list-style-type: none"> • 1 - GSM (1); • 2 - Wi-Fi; • 3 - GSM (1), Wi-Fi (): • 4 - GSM (); • 5 - GSM (1); • 6 - GSM (), Wi-Fi; • 7 - GSM (1), Wi-Fi

():
 SRV1MAINMEDIA=3;

():
 SRV1MAINMEDIA=3;

SRVxRESMEDIA

(-GX Wi-Fi).

- SMS.
- : 13.22 .
- : GSRVxRESMEDIA.

:
 SRVxRESMEDIA=media;

x	(1, 2 3)
media	<p>,</p> <ul style="list-style-type: none"> • 1 - GSM (1); • 2 - Wi-Fi; • 3 - GSM (1), Wi-Fi (): • 4 - GSM (); • 5 - GSM (1); • 6 - GSM (), Wi-Fi; • 7 - GSM (1), Wi-Fi

():
 SRV1RESMEDIA=3 ;

():
 SRV1RESMEDIA=3 ;

GSRVxSTATUS

- SMS.
- : 01.02-a4
- : GSRVxSTATUS.

:
SRVxSTATUS=current,max,channel,media;

x	: 1, 2 3
current	<ul style="list-style-type: none"> • 0 - ; • 1 - ; • 2 - ; • 3 - ; • 4 - ; • 5 - ; • 100 - ; • 101 - ; • 102 - ; • 104 - (legacy)

max	<ul style="list-style-type: none"> • 0 - ; • 1 - ; • 2 - ; • 3 - ; • 4 - ; • 5 - ; • 100 - ; • 101 - ; • 102 - ; • 103 - ; • 104 - (legacy)
channel	(0 - , 1 -)
media	(0 - , 1 - GSM, 2 - Wi-Fi, 4 - GSM 2 ())

():
GSRV1STATUS;

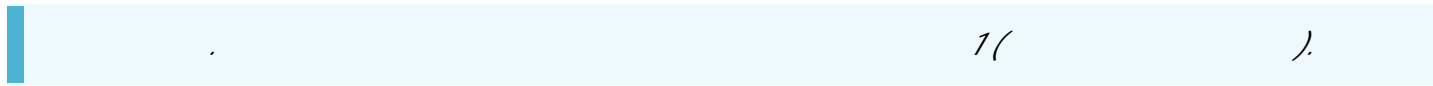
():
SRV1STATUS=3,5,5,0,1;

SRVxDISCONNECT

- SMS.
- : 01.02-a4
- : ---

SRVxDISCONNECT;

x	: 1, 2 3
---	----------



():
SRV2DISCONNECT;

():
SRV2DISCONNECT=1;

DATASEND

- SMS.
- : 01.02-a4 .
- : ---

:
DATASEND;

X	: 1, 2 3. (*DATASEND;*) *DATASEND=;*)
---	---

():
DATASEND=1 ;

():
DATASEND=1 ;

SENDALLLOG

- SMS.
- : 01.02-a4
- : GSENDALLLOG.

:
SENDALLLOG=x;

x	<ul style="list-style-type: none"> • 1 - • 0 -
---	--

():
SENDALLLOG=1 ;

():
SENDALLLOG=1 ;

FILESERVER

, ().

- SMS.
- : 01.02-a4 .
- : GFILESERVER.

:

FILESERVER=x;

:

x	(1,2,3)
---	---------

()::

FILESERVER=2 ;

()::

FILESERVER=2 ;

SRVSTATUSLED

STATUS1 (

-GX

-GX

Wi-Fi).

- SMS.
- : 13.19 .
- : GSRVSTATUSLED.

:

SRVSTATUSLED=server;

:

server	STATUS1: 1, 2 3
--------	-----------------

():

SRVSTATUSLED=1 ;

():

SRVSTATUSLED=1 ;

FILEMEDIA

(, AGL-),

- SMS.
- : 13.22
- : GFILEMEDIA.

FILEMEDIA=media;

media	<p>(, AGL-):</p> <ul style="list-style-type: none"> • 1 - GSM; • 2 - Wi-Fi; • 3 - GSM, Wi-Fi <p>():</p> <ul style="list-style-type: none"> • 4 - GSM (); • 5 - GSM (1 <p>;</p> <ul style="list-style-type: none"> • 6 - GSM (), WiFi; • 7 - GSM (1) , WiFi
-------	---

FILEMEDIA=1 ; ():

FILEMEDIA=1 ; ():

TID

(terminal ID).

- SMS.
- : 01.02-a4 .
- : GTID.

:

TID=id;

:

id	EGTS. TID
----	-----------

():

TID=8922222 ;

():

TID=8922222 ;

VEHICLE_VHT

VHT –

EGTS.

- SMS.
- : 01.02-a4
- : GVEHICLE_VHT.

:
 VEHICLE_VHT=type;

type	1 - (Class M1);
	2 - (Class M2);
	3 - (Class M3);
	4 - (Class N1);
	5 - (Class N2);
	6 - (Class N3);
	7 - (Class L1e);
	8 - (Class L2e);
	9 - (Class L3e);
	10 - (Class L4e);
	11 - (Class L5e);
	12 - (Class L6e);
	13 - (Class L7e).

():
 VEHICLE_VHT=4 ;


():
 VEHICLE_VHT=4 ;

VEHICLE_VPST

VPST -
EGTS.

- SMS.
- : 01.02-a4
- : GVEHICLE_VPST.

VEHICLE_VPST=type;

type	HEX:						
	0, ;						
	Bit 31 - 6: ;						
	Bit 5: 1 = ;						
	Bit 4: 1 = (42 v and 100 Ah);						
	Bit 3: 1 = (LPG);						
	Bit 2: 1 = (CNG);						
	Bit 1: 1 = ;						
	Bit 0: 1 = .						
	:						
1. , 1 .							
31...6 5 4 3 2 1 0							
							
2. HEX (,							
).							
3. .							

```
                (      ):  
//              :  
//              : 001010  
//              HEX: A  
VEHICLE_VPST=A;  
                (      ):  
VEHICLE_VPST=A;
```

VEHICLE_VIN

VIN (Vehicle Identification Number)

EGTS.

- SMS.
- : 01.02-a4 .
- : GVEHICLE_VIN.

:
VEHICLE_VIN=vin;

vin	(Vehicle Identification Number), (ISO 3779);
-----	--

():
VEHICLE_VIN=1234567890;

():
VEHICLE_VIN=1234567890;

PERIODCOUNT12	()	1 2	
PERIODCOUNT34	()	3 4	
PERIODCOUNT56	()	5 6	
PERIODCOUNT78	()	7 8	
INPUTMODExx			
INPUTx			
UINPUTPARAMSx			
INPUTPULLx			
OUT			
MOUT			
OUTFSOURCE	,		
OUTCOEFF			
PULSE			
FREQPERIOD		RPM	
FREQCOEFF	,	RPM	
	.		- 1
FREQVAL		RPM	

PERIODCOUNT12

() 1 2.

- SMS.
- : 01.02-a4 .
- : GPERIODCOUNT12.

:

PERIODCOUNT12=x;

:

x	, 0...3600 c. 0
---	-----------------

():

PERIODCOUNT12=30 ;

():

PERIODCOUNT12=30 ;

PERIODCOUNT34

() 3 4.

- SMS.
- : 01.02-a4 .
- : GPERIODCOUNT34.

:
 PERIODCOUNT34=x;

:

x	, 0...3600 c. 0
---	-----------------

():

PERIODCOUNT34=30 ;

():

PERIODCOUNT34=30 ;

PERIODCOUNT56

() 5 6.

- SMS.
- : 01.02-a4 .
- : GPERIODCOUNT56.

:

PERIODCOUNT56=x;

:

x	, 0...3600 c. 0
---	-----------------

():

PERIODCOUNT56=30 ;

():

PERIODCOUNT56=30 ;

PERIODCOUNT78

() 7 8.

- SMS.
- : 01.02-a4 .
- : GPERIODCOUNT78.

PERIODCOUNT78=x;

:

x	, 0...3600 c. 0 .
---	-------------------

():

PERIODCOUNT78=30 ;

():

PERIODCOUNT78=30 ;

INPUTMODExx

- SMS.
- : 01.02-a4
- : GINPUTMODExx.

INPUTMODExx=m;

xx	: 01...09
m	<ul style="list-style-type: none"> • - ; • C - ; • F -

```

INPUTMODE01=A;
INPUTMODE01=A;

```

INPUTx

- SMS.
- : 1.02-a4
- : GINPUTx. INPUTx GINPUTx

INPUTx;

INPUTx=b,c,d,e,f;

x	, 1...9
b	(0 - , 1 -)
	,
d	()
e	()
f	

```

( ):
INPUT1 ;
( ):
INPUT1=0, 512, 65473, 75632, INPUT_M_1 ;
    
```

UINPUTPARAMSx

().

- SMS.
- : 13.10 .
- : GUINPUTPARAMSx, UINPUTPARAMSx.

GUINPUTPARAMSx;

- : UINPUTPARAMSx=b,c,d,e;

x	
b	,
	(<i>MODEADx</i>): A - ;
d	: <ul style="list-style-type: none"> • 0 - ; • 1 -
e	, 0...30 ,

- : UINPUTPARAMSx=b,c,d,e,f,g,h,i;

x	
b	,
	(<i>MODEADx</i>): D -
d	(INPUTMODEx): <ul style="list-style-type: none"> • - ; • C - ; • F -

e	(<u>INPUTPULL</u>): <ul style="list-style-type: none"> • L- 'L'; • U- 'U'
f	,0...30 , (<u>POROGVOLT</u>)
g	: <ul style="list-style-type: none"> • 0- ; • 1-
h	: <ul style="list-style-type: none"> • 0- " "; • 1-
i	/ d: <ul style="list-style-type: none"> • ,C - , ; • F- ,
v	,0...30 ,

():

`GUINPUTPARAMS1;`

():

`UINPUTPARAMS1=Ignition,D,A,U,7,1,1,565;`

INPUTPULLx

() ().

- SMS.
- : 13.10 .
- : GINPUTPULLx.

:

INPUTPULLx=m;

:

x	
m	<ul style="list-style-type: none"> • L - '+'; • U - '-'

():

INPUTPULL1=U;

():

INPUTPULL1=U;

OUT

- SMS.
- : 01.02-a4 .
- : ---.

OUTx=a;

:

x	
a	<ul style="list-style-type: none"> • 0 - ; • 1 -

():

OUT1=1;

():

OUT1=1;

MOUT

- SMS.
- : 13.16
- : GMOUTn.

MOUTn=m;

n	, 1...3
m	<ul style="list-style-type: none"> • 0 - ; • 1 - ; • F - <p>(. OUTFSOURCE OUTCOEFF)</p>

():

MOUT1=1 ;

():

MOUT1=1 ;

OUTFSOURCE

- SMS.
- : 13.16
- : GOUTFSOURCEn.

OUTFSOURCEn=s;

n	
s	(" ")

():
OUTFSOURCE1=206;

():
OUTFSOURCE1=206;

OUTCOEFF

- SMS.
- : 13.16
- : GOUTCOEFFn.

OUTCOEFFn=f;

n	
f	

():

OUTCOEFF1=0.7;

():

OUTCOEFF1=0.7;

PULSE

- SMS.
- : 01.02-a4 .
- : ---

PULSEn=t;

n	
t	()

():
PULSE1=10.5;

():
PULSE1=10.5;

FREQPERIOD

RPM .

- SMS.
- : 13.14 .
- : GFREQPERIOD.

:

FREQPERIOD=x;

:

x	, : 0...3600 . 0 - - 0
---	---------------------------

():

FREQPERIOD=30 ;

():

FREQPERIOD=30 ;

FREQCOEFF

RPM

-1.

- SMS.
- : 13.14
- : GFREQCOEFF.

FREQCOEFF=x;
:

x	() : 0...10000 c
---	-------------------

():

FREQCOEFF=1.5;

():

FREQCOEFF=1.5;

FREQVAL

RPM

- SMS.
- : 13.14
- : GFREQVAL, FREQVAL.

:
 FREQVAL = a,b,raw,c;

a	,
b	: <ul style="list-style-type: none"> • 0- • 1- ;
raw	(),
c	

():

FREQVAL;

():

FREQVAL=10.60,0,5.30,2.000000;

ALARMINPUT	'
ALARMSTATE	'

ALARMINPUT

- SMS.
- : 01.04-a11
- : GALARMINPUT.

ALARMINPUT=inp;

inp	: 0-
-----	------

():
ALARMINPUT=2 ;

():
ALARMINPUT=2 ;

ALARMSTATE

- SMS.
- : 01.04-a11
- : GALARMSTATE.

:
ALARMSTATE=state;

state	: 0 1
-------	-------

():
ALARMSTATE=1 ;

():
ALARMSTATE=1 ;

GANALOGADC	
PERIODANALOG	
MODEADx	
POROGVOLTx	

GANALOGADC

- SMS.
- : 13.33
- : GANALOGADC.

:
GANALOGADCx;

x	(1 2)
---	-------

:
ANALOGADCx=value;

value	(10) x-
-------	----------

():
GANALOGADC1 ;

():
ANALOGADC1=1023 ;

PERIODANALOG

":

- SMS.
- : 01.02-a4 .
- : GPERIODANALOG.

:

PERIODANALOG=x;

:

x	, 1...3600 c
---	--------------

():

PERIODANALOG=10 ;

():

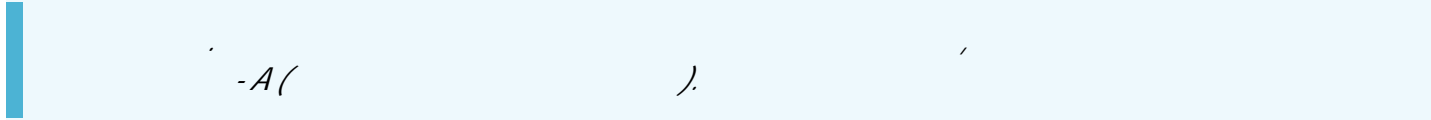
PERIODANALOG=10 ;

MODEADx

- SMS.
- : 01.02-a4
- : GMODEAD.

MODEADx=a;

x	/
a	<ul style="list-style-type: none"> • A - ; • D - • M - (,)



():

MODEAD1=A;

():

MODEAD1=A;

POROGVOLT_x

- SMS.
- : 01.04-a1
- : GPOROGVOLT_x.

:
 POROGVOLT_x=a;

x	
a	, 0.1...10.0 1.0 ()

():

```
GPOROGVOLT1=2.0;
```

():

```
GPOROGVOLT1=2.0;
```

RS-485 RS-232

RS232BAUDRATE1	(baudrate)	RS232 (1)
RS485BAUDRATE1	(baudrate)	RS485 (1)
S485		RS485
RS232FORMAT1		RS-232 (1)
RS232MODE1		RS-232 (1)
RS232TKIAMODE1	TKIA	RS-232 (1)
RS232TKIAADDR1	RS-232 (1),	TKIA
RS232TKIAPERIOD1	TKIA RS-232 (1),	
SND232		RS-232
SND485		RS-485
RS485FORMAT		RS-485
EXTAGHIPSRC	RS-485,	
RS232CAMERAEVENTPERIOD1		MDSM-7, RS-232 (1)
RS232CAMERACELL1	RS-232 (1)	MDSM-7,
RS232CAMERAPHOTOSAVE1	RS-232 (1)	MDSM-7,
RS232CAMERAPARAMS1	RS-232 (1)	MDSM-7,

RS232BAUDRATE1

RS-232

(baudrate)

RS232 (1).

- SMS.
- : 01.02-a4 .
- : GRS232BAUDRATE1.

:

RS232BAUDRATE1=b;

:

b	RS232 (1), / : 1200..1000000. : 9600, 19200, 38400, 57600, 115200
---	--

():

RS232BAUDRATE1=19200;

():

RS232BAUDRATE1=19200;

RS485BAUDRATEx

RS-485

(baudrate) RS485.

- SMS.
- : 01.02-a4 .
- : GRS485BAUDRATEx.

:

RS485BAUDRATEx=b;

:

x	RS-485: 1, 2
b	RS485, / : 1200..1000000. : 9600, 19200, 38400, 57600, 115200

():

RS485BAUDRATE1=19200;

():

RS485BAUDRATE1=19200;

SND485

RS-485

RS-485 (1)

- SMS.
- : 13.16
- : ---

SND485=num,timeout,ansLen,sendLen:data;

num	
timeout	
ansLen	
sendLen	
data	hex, ().

SND485=num,ansLen:data;

num	
ansLen	
data	hex, ().

():
SND485=1,250,100,4:31D006F0;

():
SND485=1,4:31D006F0;

S485

RS-485

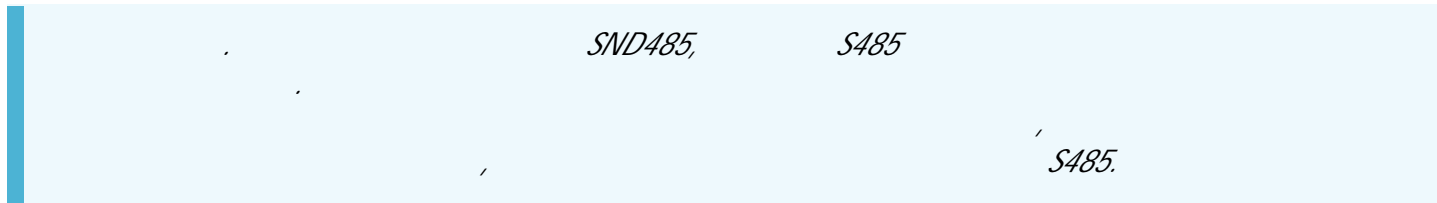
RS-485 (1).

- SMS.
- : 01.02-a4 .
- : ---

:
S485=Long:AnswerLong:AnswerWait:BaudRate:Date;

:
S485=AnswerLong:Data;

Long	
AnswerLong	()
AnswerWait	'
BaudRate	, / : 1200..1000000. : 9600, 19200, 38400, 57600, 115200.
Date	RS485, HEX- ; - RS-485 HEX-



():
S485=5:15:300:19200:3233340D0A;

():
S485=15:3233340D0A;

RS232FORMAT1

RS-485

RS-232 (1).

- SMS.
- : 13.16 .
- : GRS232FORMAT1.

:
 RS232FORMAT1=format;

	RS-232(1):
format	<ul style="list-style-type: none"> • 0 - 8-N-1; • 1 - 8-N-2; • 2 - 8-O-1; • 3 - 8-E-1

():
 RS232FORMAT1=1;

():
 RS232FORMAT1=1;

RS232MODE1

RS-485

RS-232 (1).

- SMS.
- : 13.16 .
- : GRS232MODE1.

:
RS232MODE1=mode;

	RS-232 (1):
mode	• 2 - GPS/
	• 5 - NMEA 0183 RS-232;
	• 7 - PressurePro (
	• 9 - -GX);
	• 10 - TKIA (RS232TKIAMODE1)
	• 10 - MOVON MDSM-7

():
RS232MODE1=9 ;

():
RS232MODE1=9 ;

RS232TKIAMODE1

RS-485

RS-232 (1)

TKIA.

- SMS.
- : 13.17 .
- : GRS232TKIAMODE1.

:
RS232TKIAMODE1=mode;

	RS-232(1)	TKIA,
	"0x":	
mode	• 2 -	Barcode;
	• 3 -	Tenzo M;
	• 8 -	CAS-5010A;
	• 11 -	Flex IO;
	• 19 -	TPMS613 New;
	• 1B -	NVT1H;
	• 1C -	DIN GE;
	• 1D -	EezTire;
	• 22 -	A12ESS;
	• 25 -	A9;
	• 2A -	Ritenves;
	• 36 -	XK3118;
	• 39 -	Digi Dev;
	• 3A -	VSP-4;
	• 3B -	Eva Pro;
	• 3D -	NVT9;
• FF -		

():
RS232TKIAMODE1=2;

():
RS232TKIAMODE1=2;

RS232TKIAADDR1

RS-485

RS-232 (1),

TKIA.

- SMS.
- : 13.17 .
- : GRS232TKIAADDR1.

:
 RS232TKIAADDR1=addr;

addr	, RS-232 (1), TKIA. "0x", 0...FF
------	-------------------------------------

():
 RS232TKIAADDR1=F1 ;

():
 RS232TKIAADDR1=F1 ;

RS232TKIAPERIOD1

RS-485

RS-232 (1),

TKIA.

- SMS.
- : 13.17 .
- : GRS232TKIAPERIOD1.

:
 RS232TKIAPERIOD1=period;

addr	, RS-232 (1), TKIA,
------	------------------------

():
 RS232TKIAPERIOD1=30 ;

():
 RS232TKIAPERIOD1=30 ;

SND232

RS-485

RS-232.

- SMS.
- : 13.16 .
- : ---

:
SND232=num,timeout,ansLen,sendLen:data;

num	
timeout	,
ansLen	,
sendLen	,
data	hex, ()

:
SND232=num,ansLen:data;

num	
ansLen	,
data	hex, ()

():
SND232=1,250,100,4:31D006F0;

():
SND232=1,4:31D006F0;

RS485FORMAT

RS-485

RS-485.

- SMS.
- : 13.16 .
- : GRS485FORMAT .

:
 RS485FORMAT =format;

x	RS-485 (1 2)
format	RS-485: <ul style="list-style-type: none"> • 0 - 8-N-1; • 1 - 8-N-2; • 2 - 8-O-1; • 3 - 8-E-1

():
 RS485FORMAT1=1;
 ():
 RS485FORMAT1=1;

EXTAGHIPSRC

RS-485

RS-485,

- SMS.
- : 13.21
- : GEXTAGHIPSRC.

:
EXTAGHIPSRC=id;

id	RS-485, : <ul style="list-style-type: none"> • 0 - ; • 1 - RS-485 (1); • 2 - RS-485 (2)
----	--

():
EXTAGHIPSRC=1 ;

():
EXTAGHIPSRC=1 ;

EXTAGHIPMODEM

RS-485

RS485.

- SMS.
- : 13.23
- : GEXTAGHIPMODEM.

:
EXTAGHIPMODEM=m;

m	<ul style="list-style-type: none"> • 0 - ; • 1 -
---	--

:
EXTAGHIPMODEM=1 ;

:
EXTAGHIPMODEM=1 ;

" ([EXTAGHIPSRC](#)) RS485,

RS232CAMERAEVENTPERIOD1

RS-485

MDSM-7,

RS-232 (1).

- SMS.
- : 13.33 .
- : GRS232CAMERAEVENTPERIOD1.

:

RS232CAMERAEVENTPERIOD1=period;

:

period	MDSM-7, RS-232 (1), 1...3600 . 0 -
--------	---------------------------------------

:

RS232CAMERAEVENTPERIOD1=30 ;

:

RS232CAMERAEVENTPERIOD1=30 ;

RS232CAMERACELL1

RS-485

, MDSM-7, RS-232 (1).

- SMS.
- : 13.33 .
- : GRS232CAMERACELL1.

:
RS232CAMERACELL1=cell;

cell	, MDSM-7, RS-232 (1), 1...16
------	---------------------------------

:
RS232CAMERACELL1=16 ;

:
RS232CAMERACELL1=16 ;

RS232CAMERAPHOTOSAVE1

RS-485

MDSM-7,

RS-232 (1).

- SMS.
- : 13.33 .
- : GRS232CAMERAPHOTOSAVE1.

:

RS232CAMERAPHOTOSAVE1=save;

:

save	<p>MDSM-7, RS-232 (1):</p> <ul style="list-style-type: none"> • 0 - ; • 1 -
------	---

:

RS232CAMERAPHOTOSAVE1=1;

:

RS232CAMERAPHOTOSAVE1=1;

RS232CAMERAPARAMS1

RS-485

MDSM-7,

RS-232 (1).

- SMS.
 - : 13.33
 - : GRS232CAMERAPARAMS1. RS232CAMERAPARAMS1
- GRS232CAMERAPARAMS1

:
GRS232CAMERAPARAMS1;

:
RS232CAMERAPARAMS1=new,state,status;

save	<ul style="list-style-type: none"> • 0 - ; • 1 - ;
state	<p>(hex):</p> <ul style="list-style-type: none"> • 0x01 - ; • 0x02 - ; • 0x04 - ; • 0x08 - ; • 0x10 - ; • 0x20 - ; • 0x40 - ; • 0x80 - ;
status	<p>(hex):</p> <ul style="list-style-type: none"> • 0x01 - ; • 0x02 - GPS; • 0x04 - CAN; • 0x10 - ;

:
GRS232CAMERAPARAMS1 ;

:
RS232CAMERAPARAMS1=1 ,C0 , 0 ;

LLSPERIOD	
LLSADDR	
LLSADDRESSx	
LLSWIDE	
AGHIP	AGHIP
LLSSOURCE	
LLSPARAMS	
LLSSERNUMx	
LLSPINx	PIN , TKLS-Air

LLSPERIOD

()

- SMS.
- : 01.02-a4
- : GLLSPERIOD.

LLSPERIOD=x;

:

x	, 10...3600	. 0 -
---	-------------	-------



():

LLSPERIOD=30 ;

():

LLSPERIOD=30 ;

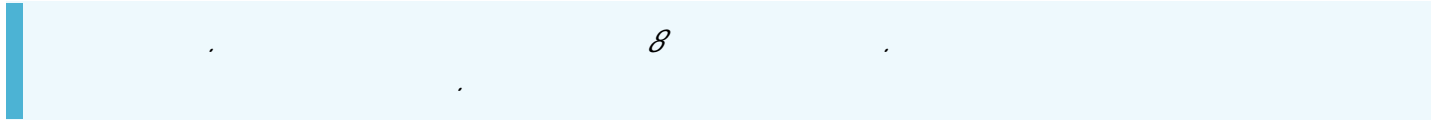
LLSADDR

()

- SMS.
- : 01.02-a4
- : GLLSADDR.

:
 LLSADDR=A1,A2,A3,A4,A5,A6,A7,A8;

An	, 1...255. 255 -
----	------------------



():
 LLSADDR=1, 2, 3, 4, 255, 255, 255, 255 ;

():
 LLSADDR=1, 2, 3, 4, 255, 255, 255, 255 ;

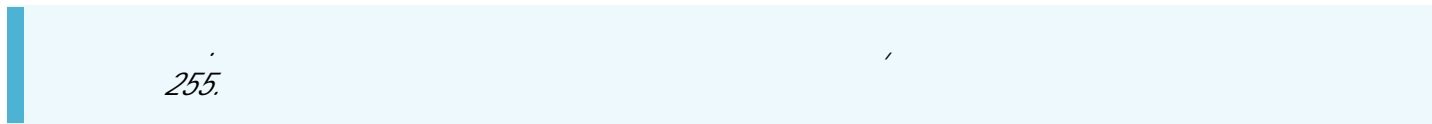
LLSADDRES

()

- SMS.
- : 01.02-a4
- : GLLSADDRESx.

:
LLSADDRESx=A;

X	, 1...8
A	, 1...255. 255 -



255.

():

LLSADDRES1=1 ;

():

LLSADDRES1=1 ;

LLSWIDE

()

- SMS.
- : 01.02-a4
- : GLLSWIDE.

:

LLSWIDE=x;

:

x	<ul style="list-style-type: none"> • 0 - • 1 -
---	--



():

LLSWIDE=1 ;

():

LLSWIDE=1 ;

LLSSOURCE

()

- SMS.
- : 01.02-a4
- : GLLSSOURCE.

LLSSOURCE=x;

x	<ul style="list-style-type: none"> • 0 - RS-485
----------	--

" ([EXTAGHIPSRC](#)) RS485,

LLSSOURCE=0 ; ():

LLSSOURCE=0 ; ():

AGHIP

()

AGHIP.

AGHIP

TKLS.

:

SMS.

: 01.02-a4

: GAGHIP.

AGHIP=x;

:

:

x	<ul style="list-style-type: none"> • 0 - LLS; • 1 - AGHIP
---	---

o

():

AGHIP=1;

():

AGHIP=1;

LLSPARAMS

()

- SMS.
- : 01.02-a4
- : GLLSPARAMS. LLSPARAMS GLLSPARAMS

:
GLLSPARAMSx;

:
LLSPARAMSx=a,b,c,d,e;

x	, 1...8
a	, 1...255. 255 -
b	, (0, 1): 0 - 1 -
c	, int
d	, 0...180, int. 255 - (AGHIP)
e	, C, int
f	: • 0 - ; • 1 - ; • 2 - ; • 100 -

():

GLLSPARAMS1 ;

():

LLSPARAMS1=1, 1, 5667, 12, 21 ;

```
2      LLSADDR,      LLSPARAMS (GLLSPARAMS)  
      ,      GLLSADDR
```

"UNSUPPORTED_PARAMETER".

LLSSERNUMx ()

- BLE (Bluetooth).
- SMS.
- : 13.14
- : GLLSSERNUMx.

:
LLSSERNUMx=A;

x	, 1...8
A	, 0-

():
LLSSERNUM1=12000000;

():
LLSSERNUM1=12000000;



LLSPINx

()

PIN-

TKLS-Air.

- SMS.
- : 13.14 .
- : GLLSPINx.

:

LLSPINx=A;

:

x	, 1...8
A	PIN- , 4

():

LLSPIN1=1234;

():

LLSPIN1=1234;

TKAM

TKAM	TKAM
TKAMPERIOD	TKAM
TKAMSINGLEADDR	TKAM
TKAMPARAMS	TKAM
TKAMSERNUMx	TKAM / TKAM-Air
TKAMPINx	PIN- TKAM-Air
TKAMADDRECx	TKAM-Air

TKAM

()

TKAM

- SMS.
- : 01.02-a4
- : GTKAM.

:

TKAM=x:Y1,Y2,Y3,Y4,Y5,Y6,Y7,Y8,Y9,Y10,Y11,Y12,Y13,Y14,Y15,Y16;

:

x	, 5...3600 . 0 -
Yn	<p>n (n = 1...16)</p> <p>"0x", C0...C7.</p> <p>00 FF -</p> <p>8</p> <p>00 FF</p> <p>16</p>

():

TKAM=C0,C1,C2,C3,C5,0,0,0,0,0,0,0,0,0,0,0,0;

():

TKAM=C0,C1,C2,C3,C5,0,0,0,0,0,0,0,0,0,0,0,0;

TKAMPERIOD

()

TKAM.

- SMS.
- : 01.02-a4 .
- : GTKAMPERIOD.

:

TKAMPERIOD=x;

:

x	, 5...3600 . 0 -
---	------------------

():

TKAMPERIOD=30 ;

():

TKAMPERIOD=30 ;

TKAMSINGLEADDR

()

TKAM.

- SMS.
- : 01.02-a4 .
- : GTKAMSINGLEADDR.

:

TKAMSINGLEADDRx=y;

:

x	, 1...16
y	, 0... 7, "0x".00 FF -

"UNSUPPORTED_PARAMETER" FF

():

TKAMSINGLEADDR1=C0;

():

TKAMSINGLEADDR1=C0;

TKAMPARAMS

()

TKAM.

- SMS.
- : 01.02-a4 .
- : GTKAMPARAMS. TKAMPARAMS GTKAMPARAMS

GTKAMPARAMSx;

TKAMPARAMSx=a,b,c,d,e,f,g,h;

x	, 1...16
a	, 0... 7, "0x".00 FF -
b	: <ul style="list-style-type: none"> • 0- ; • 1-
c	1 (0,1)
d	2 (0,1)
e	: <ul style="list-style-type: none"> • 0- , , • 1- , ,
f	, 0...180, float
g1	1, "e"
g2	2, "e"
g3	3, "e"
g4	4, "e"
g5	5, "e"
g6	6, "e"

h	(13.14)
---	-----------

```

                'a'
                TKAMSINGLEADDR      TKAM,
TKAMPARAMS (GTKAMPARAMS)          2
                GTKAMSINGLEADDR GTKAM
"UNSUPPORTED_PARAMETER".
    
```

```

                ( ):
TKAMPARAMS1 ;
                ( ):
TKAMPARAMS1=FF,1,0,0,2,1.0,27,4,-1,224,-56,0,2;
    
```

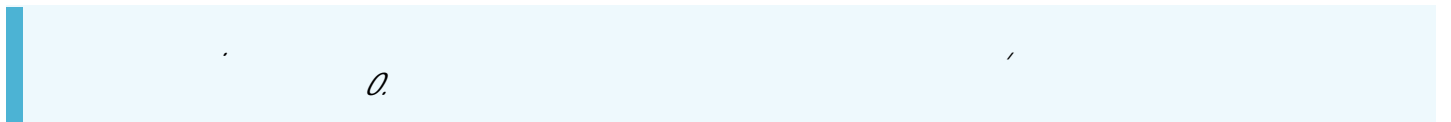

TKAMSERNUMx ()

TKAM / TKAM-Air.

- BLE (Bluetooth).
- SMS.
- : 13.14 .
- : GTKAMSERNUMx.

:
TKAMSERNUMx=A;

x	,01...16
A	,0-



():

TKAMSERNUM01=12000000;

():

TKAMSERNUM01=12000000;

TKAMPINx

()

PIN- ,

TKAM-Air.

- SMS.
- : 13.14 .
- : GTKAMPINx.

:

TKAMPINx=A;

:

x	, 01...16
A	PIN- , 4

():

TKAMPIN01=1234;

():

TKAMPIN01=1234;

TKAMADDRECx ()

TKAM-Air.

- SMS.
- : 13.31 .
- : GTKAMADDREC.

:
TKAMADDRECx=y;

x	,01...16
y	0 - ; 1 - " (.)"; " (.C)" " (%)"

"UNSUPPORTED_PARAMETER"

```

( ):
TKAMADDREC01=1;
( ):
TKAMADDREC01=1;

```

MODBUS

MODBUSIN	MODBUS
MODBUSOUT	MODBUS
MODBUSSEN	(MODBUS) RS-485
MODBUSSENPARAMS	RS-485 (MODBUS)
MODBUSSENPARAMACC	RS-485 (MODBUS)
MODBUSSENPARAMFORMAT	RS-485 (MODBUS)
MODBUSSENPERIOD	RS-485 (MODBUS)
MODBUSSENCONTROL	RS-485 (MODBUS)
MODBUSIDCONTROL	RS-485 (MODBUS)
MODBUSSENLONGADAPTIVE	RS-485 (MODBUS)
MODBUSSENLONGCONTROL	RS-485 (MODBUS)

MODBUSIN

MODBUS

MODBUS.

- SMS.
- : 01.12 .
- : ---.

:
MODBUSIN=addr,reg_addr,byte;

:
MODBUSIN=addr,reg_addr,byte,data;

addr	/ , RS485 MODBUS (2). HEX
reg_addr	MODBUS , HEX (4). MODBUS
byte	()
data	, HEX.

():
// , RS485 0064 C0.

MODBUSIN=C0,0064,2;

():
// 4100 (HEX). . . 0041 (HEX)
65 (DEC). C0 TKAM
0064 (HEX) 1
() . - 65.

MODBUSIN=C0,0064,2,4100;

MODBUSOUT

MODBUS

() MODBUS.

- MODBUS, ,
- RS485.
- SMS.
- : 01.12 .
- : ---.

MODBUSOUT=addr,reg_addr,byte,timeout,data;

addr	RS485 MODBUS (2). HEX
reg_addr	MODBUS , HEX (4). MODBUS
byte	()
timeout	- 100
data	HEX (4).

```

( ):
// 4100 MODBUS
0064 , RS485
C0. C0 TKAM
0064 (HEX)
1 ( ). 4100 - 0041
(HEX) -> 65 (DEC).

```

```
MODBUSOUT=C0,0064,2,100,4100;
```

```
( ):
MODBUSOUT=C0,0064,2,100,4100;
```

MODBUSSEN

MODBUS

RS-485 (MODBUS).

- SMS.
- : 01.02-a4 .
- : GMODBUSSENxxx.

:
MODBUSSENxxx=addr,reg,cmd,type,len,conv;

xxx	(dec), 001...100
addr	MODBUS, hex, "0x", 0...FF.00 FF -
reg	, hex, "0x", 0000...FFFF
cmd	MODBUS. . ModbusCommands " <u>MODBUS</u> "
type	<u>GenericParamType</u> "
len	: <ul style="list-style-type: none"> • 1...32 , cmd = 1 (MODBUS_CMD_READ_COILS) 2 (MODBUS_CMD_READ_DISCR_INPUTS); • 2 4 (1 2) cmd = 3 (MODBUS_CMD_READ_HOLDING_REGS) 4 (MODBUS_CMD_READ_INPUT_REGS)
conv	ModbusConvTypes " <u>MODBUS</u> "

```

1.          -GX          -
(          len)          :
• 6...250          Read Holding Registers (0x03)  Read Input Registers (0x04)
• 33..255          Read Coils (0x01)  Read Discrete Inputs (0x02).
                  type conv.

2.          Read Coils (0x01)  Read Discrete Inputs (0x02)          type conv
          (type          GENERIC_PARAM_BITFIELD,
          ).
          Read Holding Registers (0x03)  Read Input Registers (0x04)  len = 2          conv
          '
          type = MODBUS_DATA_TYPE_FLOAT

3.          addr  reg          "UNSUPPORTED_PARAMETER".
          xxx, cmd, type, len  conv  addr          00  FF
          "UNSUPPORTED_PARAMETER".          addr = 00  FF
    
```

```

          (          ):
MODBUSSEN003=F8,0203,03,1,2,1;
    
```

```

          (          ):
MODBUSSEN003=F8,0203,3,1,2,1;
    
```


MODBUSSENPARAMS

MODBUS

RS-485 (MODBUS).

- SMS.
- : 01.02-a4
- : MODBUSSENPARAMS GMODBUSSENPARAMS,

GMODBUSSENPARAMSxxx;

MODBUSSENPARAMSxxx=addr,reg,cmd,type,len,conv,valid,typeAct,val;

xxx	(dec), 001...100
addr	hex "0x", 0...FF. addr = 00 FF -
reg	hex "0x", 0000...FFFF
cmd	MODBUS, hex "0x", ModbusCommands "MODBUS"
type	hex "0x", GenericParamType "
len	: <ul style="list-style-type: none"> • 1...32 cmd = 1 (MODBUS_CMD_READ_COILS) 2 (MODBUS_CMD_READ_DISCR_INPUTS); • 2 4 (1 2) cmd = 3 (MODBUS_CMD_READ_HOLDING_REGS) 4 (MODBUS_CMD_READ_INPUT_REGS)
conv	, hex "0x". ModbusConvTypes " "MODBUS"
valid	: <ul style="list-style-type: none"> • 0 - ; • 1 -

typeAct	val, . <u>GenericParamType</u> "
val	<p>typeAct:</p> <ul style="list-style-type: none"> • GENERIC_PARAM_UINT - ; • GENERIC_PARAM_INT () ; • GENERIC_PARAM_FLOAT - ; • GENERIC_PARAM_BITFIELD - hex "0x"

val - 0. , *typeAct* *GENERIC_PARAM_NO_DATA,*

():
 GMODBUSSENPARAMS003 ;

():
 MODBUSSENPARAMS003=01,0003,5,1,2,1,0,0,0 ;

MODBUSSENPARAMACC

MODBUS

RS-485 (MODBUS).

- SMS.
- : 01.02-a4 .
- : GMODBUSSENPARAMACCxxx.

:
MODBUSSENPARAMACCxxx=AARRRRCC;

xxx	(dec), , 001...100
AA	hex "0x", 00...FF. 00 FF -
RRRR	, hex "0x", 4 , 0000...FFFF
CC	MODBUS, hex "0x", ModbusCommands <u>MODBUS</u>

"WRONG FORMAT"

():
MODBUSSENPARAMACC003=01000305;

():
MODBUSSENPARAMACC003=01000305;

MODBUSSENPARAMFORMAT

MODBUS

RS-485 (MODBUS).

- SMS.
- : 01.02-a4
- : GMODBUSSENPARAMFORMATxxx.

:
MODBUSSENPARAMFORMATxxx=TTLCCCC;

xxx	(dec), 001...100
TT	, hex "0x", <u>GenericParamType</u>
LL	hex "0x". <ul style="list-style-type: none"> • 0x01...0x20 , cmd = 1 (MODBUS_CMD_READ_COILS) 2 (MODBUS_CMD_READ_DISCR_INPUTS); • 2 4 (1 2), cmd = 3 (MODBUS_CMD_READ_HOLDING_REGS) 4 (MODBUS_CMD_READ_INPUT_REGS)
AA	: 0 - ; 1 - ()
CC	, hex "0x", ModbusConvTypes <u>MODBUS</u>

"WRONG FORMAT".

```

        -GX
        (LL)          0x21    0xFF,    cmd ==
MODBUS_CMD_READ_COILS  MODBUS_CMD_READ_DISCR_INPUTS,    0x6...0xFA
(      ),    cmd == MODBUS_CMD_READ_HOLDING_REGS  MODBUS_CMD_READ_INPUT_REGS.
        type conv(
        ).
        MODBUSSENLONGCONTROL.

( . '      MODBUSSENxxx).

```

():

MODBUSSENPARAMFORMAT003=01020001;

():

MODBUSSENPARAMFORMAT003=01020001;

MODBUSSENPERIOD

MODBUS

RS-485 (MODBUS).

- SMS.
- : 01.02-a4 .
- : GMODBUSSENPERIOD.

:

MODBUSSENPERIOD=x;

:

x	, .0 -
---	--------

():

MODBUSSENPERIOD=120;

():

MODBUSSENPERIOD=120;

MODBUSSENCONTROL

MODBUS

RS-485 (MODBUS).

- SMS.
- : 01.02-a4 .
- : MODBUSSENCONTROL, GMODBUSSENCONTROL.

GMODBUSSENCONTROLx;

MODBUSSENCONTROLx=valid,val;

x	(dec), , 001...100
valid	: 0 - , 1 -
val	<ul style="list-style-type: none"> • GENERIC_PARAM_UINT - (uint dec); • GENERIC_PARAM_INT - (int dec); • GENERIC_PARAM_FLOAT - (float); • GENERIC_PARAM_BITFIELD - (uint hex), "0x"

():
MODBUSSENCONTROL1;

():
MODBUSSENCONTROL1=1, -1349;

MODBUSSENLONGCONTROL

MODBUS

RS-485 (MODBUS)

(-GX).

- SMS.
- : 13.31 .
- : MODBUSSENLONGCONTROL GMODBUSSENLONGCONTROL,

:
GMODBUSSENLONGCONTROLx;

:
MODBUSSENLONGCONTROLx=valid,val(1),val(2)...val(m);

x	(dec), , 001...100
valid	: 0 - ; 1 -
val(m)	m (m -)

():
GMODBUSSENLONGCONTROL3 ;

():
MODBUSSENLONGCONTROL003=1 , A1 , 01 , A2 , 02 , A3 , 03 , A4 , 04 , A5 , 05 ;

MODBUS

MODBUS (MODBUSCOMMANDS)

MODBUS_CMD_INVALID_LOW	0	
ADAPTIVE_TYPE_LEVEL	1	Read Coils - (0x01)
MODBUS_CMD_READ_DISCR_INPUTS	2	Read Discrete Inputs - (0x02)
MODBUS_CMD_READ_HOLDING_REGS	3	Read Holding Registers - (0x03)
MODBUS_CMD_READ_INPUT_REGS	4	Read Input Registers - (0x04)
MODBUS_CMD_INVALID_HIGH	> 4	

MODBUS (MODBUSCONVTYPES)

MODBUS_CONV_TYPE_INVALID_LOW	0	
MODBUS_CONV_TYPE_AS_IS	1	
MODBUS_CONV_TYPE_SWAP_BYTES_IN_REGS	2	
MODBUS_CONV_TYPE_SWAP_REGS	3	
MODBUS_CONV_TYPE_REVERSE_BYTES	4	
MODBUS_CONV_TYPE_INVALID_HIGH	> 4	

PPADDR	TK-IA
PPWEIGHTADDR	TK-IA.
PPPERIOD	TK-IA
PPPARAMS	TK-IA
PASSFLOWADDR	
PASSFLOWPERIOD	
PASSFLOWSYSTEM	
PASSFLOWSOURCE	RS-485
PASSFLOWCONV	
PASSFLOWPARAMS	

PPADDR

TK-IA.

- SMS.
- : 13.17
- : GPPADDR.

PPADDR=a1,a2,a3,a4,a5,a6,a7,a8,a9,a10,a11,a12,a13,a14,a15,a16;

	n (1...16)	, 0...255.
an	16	0 255
	• 0 255 - ;	
	• 1...229, 246...254 - ;	
	• 230...245 -	

():
 PPADDR=220,221,0,0,0,0,0,0,0,0,0,0,0,0,0,0;

():
 PPADDR=220,221,0,0,0,0,0,0,0,0,0,0,0,0,0,0;

PPWEIGHTADDR

TK-IA.

- SMS.
- : 13.17 .
- : GPPWEIGHTADDR.

PPWEIGHTADDRx=addr;

x	, 1...16
addr	<p>x, 0...255:</p> <ul style="list-style-type: none"> • 0 255 - ; • 1...229, 246...254 - ; • 230...245 -

():
PPWEIGHTADDR1=220 ;

():
PPWEIGHTADDR1=220 ;

PPPERIOD

TK-IA.

- SMS.
- : 13.17 .
- : GPPPERIOD.

:

PPPERIOD=period;

:

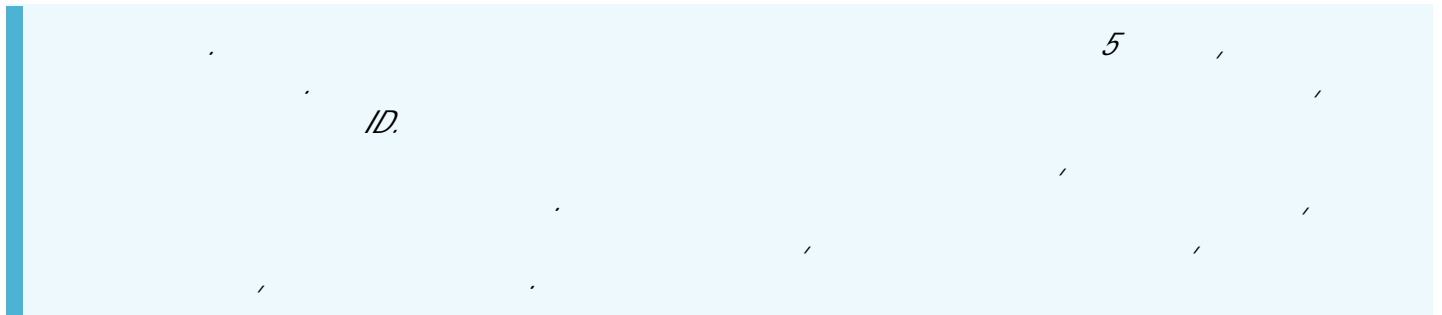
period	, 30...3600 .0 -
--------	------------------

():

PPPERIOD=30 ;

():

PPPERIOD=30 ;



5

ID.

PPPARAMS

TK-IA.

- SMS.
- : 13.17
- : GPPPARAMS. PPPARAMS GPPPARAMS

GPPPARAMSx;

PPPARAMSx=addr,new,mode,id,status,in,out,weight;

x	, 1...16
addr	<ul style="list-style-type: none"> • 0 255 - ; • 1...229, 246...254 - ; • 230...245 - .
new	: 0 - , 1-
mode	, "0x"
id	, 0...255
status	, "0x"
in	0
out	0
weight	0

():

GPPPARAMS1 ;

():

PPPARAMS1=220,1, 1,167,0002,5,7,0.000000 ;

TKIA,
"GPPPARAMS1;"

PASSFLOWADDR

- SMS.
- : 13.33
- : GPASSFLOWADDR.

PASSFLOWADDRx=y;

x	(dec), , 01...16
y	, "0 ": 0...FF.00 FF -

():
PASSFLOWADDR05=A0;

():
PASSFLOWADDR05=A0;

A0...A7.

Streamax

PASSFLOWPERIOD

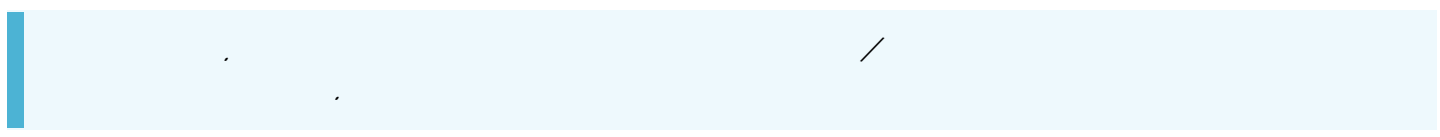
- SMS.
- : 13.33
- : GPASSFLOWPERIOD.

:
PASSFLOWPERIOD=x;

x	, 0...3600 . 0 -
---	------------------

():
PASSFLOWPERIOD=60 ;

():
PASSFLOWPERIOD=60 ;



PASSFLOWSYSTEM

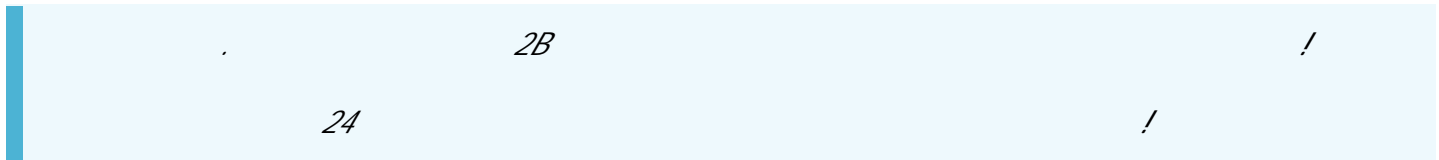
- SMS.
- : 13.33
- : GPASSFLOWSYSTEM.

:
PASSFLOWSYSTEM=x;

x	<ul style="list-style-type: none"> • 24 - Streamax-APC; • 2B - -01; • -
---	--

():
PASSFLOWSYSTEM=2B;

():
PASSFLOWSYSTEM=2B;



PASSFLOWSOURCE

RS-485,

- SMS.
- : 13.33
- : GPASSFLOWSOURCE.

PASSFLOWSOURCE=id;

id	RS-485,
	• 0 - ;
	• 1 - RS-485 (1);
	• 2 - RS-485 (2)

():
 PASSFLOWSOURCE=1 ;

():
 PASSFLOWSOURCE=1 ;

RS-485 *"PASSFLOWSOURCE=2;"*

PASSFLOWCONV

- SMS.
- : 13.33
- : GPASSFLOWCONV.

PASSFLOWCONV=x;

X	<ul style="list-style-type: none"> • 0 - • 1 -
---	--

():

PASSFLOWCONV=1;

():

PASSFLOWCONV=1;

-01 (PASSFLOWSYSTEM=2B;).

PASSFLOWPARAMS

- SMS.
- : 13.33
- : GPASSFLOWPARAMS. PASSFLOWPARAMS GPASSFLOWPARAMS

:
PASSFLOWPARAMSx=y,z,a,b,c;

x	, 1...16
y	, "0 ": 0...FF.00 FF -
z	: • 0 - • 1 -
a	
b	
c	

():
GPASSFLOWPARAMS1 ;

():
PASSFLOWPARAMS1=A0,1,10,5,1 ;

TK-CardReader

MODBUSID	RS-485 (MODBUS)
AGCR	RS-485 (MODBUS)
MODBUSIDCONTROL	RS-485 (MODBUS)

MODBUSID

TK-CardReader

RS-485 (MODBUS).

- SMS.
- : 01.02-a4
- : GMODBUSID.

MODBUSID=A1,A2,A3,A4,A5,A6,A7,A8;

An	n - : 1...8	"0x": 0...FF. 0 FF -
----	-------------	----------------------



():
MODBUSID=F1 , F2 , F3 , F4 , F5 , F6 , F7 , F8 ;

():
MODBUSID=F1 , F2 , F3 , F4 , F5 , F6 , F7 , F8 ;

MODBUSIDCONTROL

MODBUS

RS-485 (MODBUS).

- SMS.
- : 01.08-a4
- : MODBUSIDCONTROL GMODBUSIDCONTROL,

GMODBUSIDCONTROLx;

MODBUSIDCONTROLx=a,b,c;

x	, 1...8
a	: 0 - , 1 -
b	: • 0 - ; • 1 - ; • 2 -
c	, b

():
GMODBUSIDCONTROL8;

():
// - (b=0)
MODBUSIDCONTROL8=1,0,86.56951;
// - (b=1)
MODBUSIDCONTROL8=0,1,0x290056DE77;
// - (b=2)
MODBUSIDCONTROL8=1,2,176099352183;

AGCR

TK-CardReader

RS-485 (MODBUS).

- SMS.
- : 01.02-a4 .
- : GAGCR.

:

AGCRxx=A;

:

xx	, 01...08
A	, "0x", 0...FF. 0 FF -

'UNSUPPORTED PARAMETER' *xx* *'WRONG FORMAT'*

():

AGCR02=F2 ;

():

AGCR02=F2 ;

TK-CardReader

TRKADDR	
FUEL	
TRKCONTROL	
LASTTRK	.
ZAPRAV	(), -3.

TRKADDR

() .

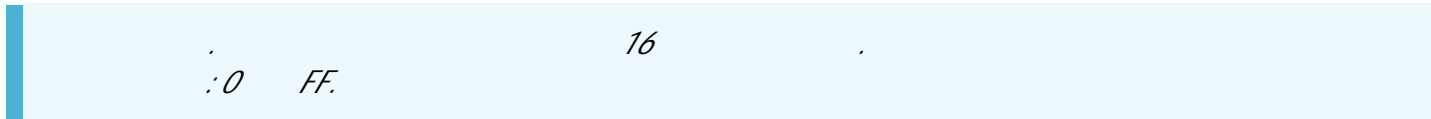
- SMS.
- : 01.12 .
- : GTRKADDR.

:

TRKADDR=A1,A2,A3,A4,A5,A6,A7,A8,A9,A10,A11,A12,A13,A14,A15,A16;

:

An	0 FF -	n, HEX, "0x", D0...D7.
	n -	: 1...16



16
: 0 FF.

():

TRKADDR=D0 , D1 , FF , FF , FF , FF , FF , FF , FF , FF , FF , FF , FF , FF , FF , FF ;

():

TRKADDR=D0 , D1 , FF , FF , FF , FF , FF , FF , FF , FF , FF , FF , FF , FF , FF , FF ;

\$FUEL

- SMS.
- : 01.12
- : G\$FUEL \$FUEL.

G\$FUEL=addr;

\$FUEL=id,addr,volume,duration,card1ID,card2ID;

addr	c • D0...D7 - TKFC • F9 - -3, TKFC -3
id	, 0...65535. 65535
volume	,
duration	,
card1ID	HEX, "0x" (8)
card1ID	HEX, "0x" (8)

'UNSUPPORTED PARAMETER' *XX* *'WRONG FORMAT'*

```

( ):
G$FUEL=D0 ;
( ):
$FUEL=245 , D0 , 55556 , 210 , 7b8152 , 56de77 ;
    
```

TRKCONTROL

- SMS.
- : 01.12
- : GTRKCONTROL, TRKCONTROL.

GTRKCONTROLx;

TRKCONTROLx=addr,new,id,volume,duration,card1ID,card2ID;

x	<ul style="list-style-type: none"> • 0 – , -3; • 1...16 – TKFC
addr	00 FF – HEX, "0x". 0 F9
new	<ul style="list-style-type: none"> • 0 – ; • 1 –
id	, 0...65535. 65535 -
volume	,
duration	,
card1ID	HEX, "0x" (8)
card2ID	HEX, "0x" (8)

():
GTRKCONTROL1;

():
TRKCONTROL1=D0,1,204,55556,210,7b8152,56de77;

LASTTRK

- SMS.
- : 13.17
- : GLASTTRK, LASTTRK.

:
GLASTTRK=addr;

:
LASTTRK=id,addr,volume,duration,card1ID,card2ID;

id	, 0...65535. 65535 -
addr	"0x": <ul style="list-style-type: none"> • D0...D7 - TKFC, • F9 - -3, TKFC, -3
volume	,
duration	,
card1ID	HEX, "0x" (8)
card2ID	HEX, "0x" (8)

():

GLASTTRK=D0 ;

():

LASTTRK=6550 , D0 , 20550 , 218 , 7b8152 , 56de77 ;

ZAPRAV

-3.

(),

- SMS.
- : 13.17
- : GZAPRAV, ZAPRAV.

GZAPRAV;

ZAPRAV=new,id,0,vehID,volume,duration;

new	<ul style="list-style-type: none"> • 0 - • 1 -
id	65535 - , 0...65535.
vehID	
volume	,
duration	,

():

ZAPRAV;

():

ZAPRAV=1, 3480, 0, 5687, -1, 13000, 306;

()

TKKZ	TKKZ
TKKZPERIOD	TKKZ
TKKZSINGLEADDR	TKKZ
TKKZPARAMS	TKKZ

TKKZ

()

TKKZ

- SMS.
- : 01.02-a4
- : GTKKZ.

:

TKKZ=x:Y1,Y2,Y3,Y4,Y5,Y6,Y7,Y8,Y9,Y10,Y11,Y12,Y13,Y14,Y15,Y16;

:

x	, 5...3600 . 0 -
Yn	FF - 8 16 00 FF n - : 1...16 "0x": B0...B7. 00

():

TKKZ=60:B0,B1,B2,B3,00,00,00,00,00,00,00,00,00,00,00,00;

():

TKKZ=60:B0,B1,B2,B3,00,00,00,00,00,00,00,00,00,00,00,00;

TKKZPERIOD

()

TKKZ.

- SMS.
- : 01.02-a4 .
- : GTKKZPERIOD.

:

TKKZPERIOD=x;

:

x	, 5...3600 . 0 -
---	------------------

():

TKKZPERIOD=120;

():

TKKZPERIOD=120;

TKKZSINGLEADDR

()

TKKZ.

- SMS.
- : 01.02-a4 .
- : GTKKZSINGLEADDR.

:

TKKZSINGLEADDRx=y;

:

x	, 1...16
y	, B0...B7, "0x".00 FF -

FF

"UNSUPPORTED_PARAMETER"

():

TKKZSINGLEADDR1=B7 ;

():

TKKZSINGLEADDR1=B7 ;

TKKZPARAMS

()

TKKZ.

- SMS.
- : 01.02-a4
- : TTKZPARAMS. TTKZPARAMS GTKKZPARAMS

GTKKZPARAMSx;

TKKZPARAMSx=a,b,c,d,e,f,g;

x	, 1...16.
a	, B0...B7, "0x". 00 FF -
b	, (0,1): • 0 - • 1 -
c	, (int)
d	, (int)
e	: • 3211 ; • 3212 ; • 3221 ; • 3222 ; • 111 ; • 112 ; • 121 ; • 122 ; • 211 ;

	<ul style="list-style-type: none"> • 212 ; • 221 ; • 222 ; • 2111 MIN; • 2112 MIN; • 2121 MIN; • 2122 MIN; • 2211 MAX; • 2212 MAX; • 2221 MAX; • 2222 MAX; • 3001 1 ; • 3002 2 ; • 3003 3
f	
g	<ul style="list-style-type: none"> • 000 – ; • 001 – 1 ; • 010 – 1 , 2 ; • 011 – 1 2 ; • 100 –

```

TKKZSINGLEADDR   TKKZ,          GTKKZPARAMSx
 2               ,          GTKKZSINGLEADDR GTKKZ

"UNSUPPORTED_PARAMETER".
    
```

```

( ):
GTKKZPARAMS1 ;
( ):
TKKZPARAMS1=B0,1,54,1056,01,1,0;
    
```

(RS-485)

CAMERAPERIODn	
CAMERAEVENTPERIODn	
CAMERAEVENTn	
CAMERACOMPRESSIONn	
CAMERASIZEn	
CAMERASET	
PHOTOMAKE	
PHOTOSERVER	,
SENDALLPHOTO	
PHOTOMEDIA	,
CAMERASTATUSn	

CAMERAPERIODn

(RS-485)

- SMS.
- : 13.17
- : GCAMERAPERIODn.

:
CAMERAPERIODn=period;

n	, 01...16
period	,

():
CAMERAPERIOD01=300;

():
CAMERAPERIOD01=300;

CAMERAEVENTPERIODn

(RS-485)

CAMERAEVENTn.

- SMS.
- : 13.17
- : GCAMERAEVENTPERIODn.

:
CAMERAEVENTPERIODn=period;

n	, 01...16
period	CAMERAEVENTn),

():
CAMERAEVENTPERIOD01=60 ;

():
CAMERAEVENTPERIOD01=60 ;

CAMERACOMPRESSIONn

(RS-485)

- SMS.
- : 13.17
- : GCAMERACOMPRESSIONn.

:
CAMERACOMPRESSIONn=compression;

n	, 01...16
compression	, 20..250

():
CAMERACOMPRESSION01=160;

():
CAMERACOMPRESSION01=160;

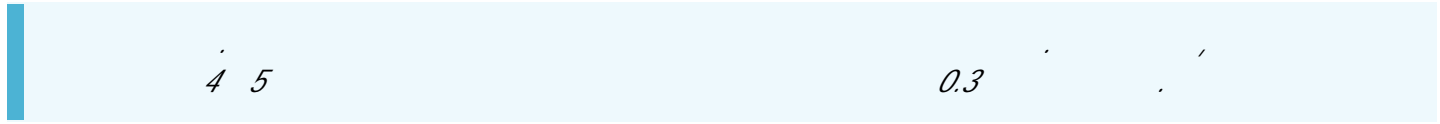
CAMERASIZE_n

(RS-485)

- SMS.
- : 13.17
- : GCAMERASIZE_n.

:
CAMERASIZE_n=size;

n	, 01...16
size	<ul style="list-style-type: none"> • 1 - 160×120; • 2 - 320×240; • 3 - 640×480; • 4 - 1280×720, 1280×1024 1920×1080; • 5 - 2048×1536



```

( ):
CAMERASIZE01=3;
( ):
CAMERASIZE01=3;

```

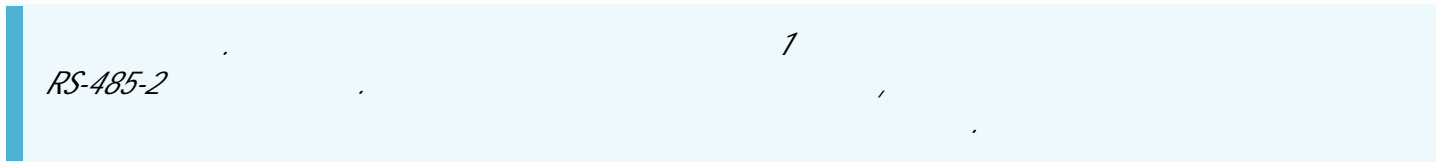
CAMERASET

(RS-485)

- SMS.
- : 13.17
- : ---.

CAMERASET=address;

address	, 1...16.
---------	-----------



RS-485-2

1

():

CAMERASET=1 ;

():

CAMERASET=1 ;

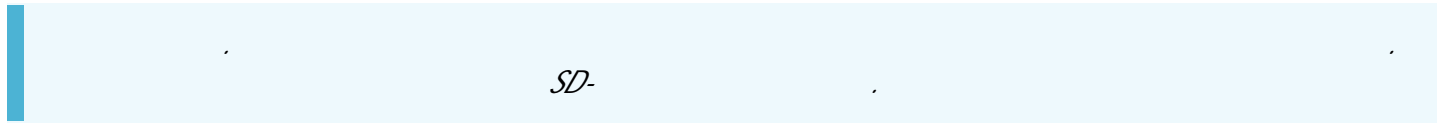
PHOTOMAKE

(RS-485)

- SMS.
- : 13.17
- : ---.

PHOTOMAKE=n;

n	,01...16
---	----------



SD-

():

PHOTOMAKE=1 ;

():

PHOTOMAKE=1 ;

PHOTOSERVER

(RS-485)

- SMS.
- : 01.02-a4
- : GPHOTOSERVER.

PHOTOSERVER=x;

x	: 1, 2, 3
---	-----------

():
 PHOTOSERVER=2 ;

():
 PHOTOSERVER=2 ;

SENDALLPHOTO

(RS-485)

- SMS.
- : 01.02-a4 .
- : GSENDALLPHOTO.

SENDALLPHOTO=x;

x	SD- : <ul style="list-style-type: none"> • 1 - . • 0 - ;
---	---

():

SENDALLPHOTO=1 ;

():

SENDALLPHOTO=1 ;

PHOTOMEDIA

(RS-485)

- SMS.
- : 13.22
- : GPHOTOMEDIA.

PHOTOMEDIA=media;

media	• 1 -	GSM;
	• 2 -	Wi-Fi;
	• 3 -	GSM, Wi-Fi
	():	
	• 4 -	GSM ();
	• 5 -	GSM (1
	;	
• 6 -	GSM (), Wi-Fi;	
• 7 -	GSM (1),	
	Wi-Fi	

(): PHOTOMEDIA=1 ;

(): PHOTOMEDIA=1 ;

CAMERASTATUSn

(RS-485)

- SMS.
- : 13.25
- : GCAMERASTATUSn.

:
CAMERASTATUSn=state,imageSize,currentPage,maxPage,path;

n	: 01...16
state	<ul style="list-style-type: none"> • 0 - ; • 1 - ; • 2 - , ; • 3 - ; • 4 - ; • 5 -
imageSize	,
currentPage	,
maxPage	
path	, (PHOTOMAKE)

:
GCAMERASTATUS01;

:
CAMERASTATUS01=3,51147,70,100,TEMP\AGDS_3199998_01_230505_062428_00002.jpg;

1-Wire

ONLYTEMP	1-Wire
TEMPADDR	1-Wire
TEMPPERIOD	1-Wire
TEMPSINGLEADDR	1-Wire
GTEMPPARAMS	
IBUTTONID	iButton
IBUTTONREPEATWRITE	iButton
IBUTTONOFFWRITE	iButton

ONLYTEMP

1-wire

1-Wire.

- SMS.
- : 01.02-a4 .
- : GONLYTEMP.

:

ONLYTEMP=x;

:

x	<ul style="list-style-type: none"> • Y - ; • N - ()
---	--

():

ONLYTEMP=N;

():

ONLYTEMP=N;

TEMPADDR

1-wire

1-Wire.

- SMS.
- : 01.02-a4 .
- : GTEMPADDR.

:

TEMPADDR=A1,A2,A3,A4,A5,A6,A7,A8;

:

An	hex, "0x", .000000000000 FFFFFFFF - ;
n -	: 1...8

8
000000000000 FFFFFFFF.

():

TEMPADDR=000000000001,000000000008,FFFFFFFF,FFFFFFFF,FFFFFFFF,FFFFFFFF,FFFFFFFF,FFFFFFFF,FFFFFFFF;

():

TEMPADDR=000000000001,000000000008,FFFFFFFF,FFFFFFFF,FFFFFFFF,FFFFFFFF,FFFFFFFF,FFFFFFFF,FFFFFFFF;

TEMPADDR

TEMPPERIOD

1-wire

1-Wire.

- SMS
- : 01.02-a4
- : GTEMPPERIOD

:

TEMPPERIOD=x ;

:

x	, 10...3600	. 0 -
---	-------------	-------

():

TEMPPERIOD=30 ;

():

TEMPPERIOD=30 ;

TEMPSINGLEADDR

1-wire

1-Wire.

- SMS.
- : 01.02-a4 .
- : GTEMPSINGLEADDR.

:
 TEMPSINGLEADDRx=y;

x	, 1...8
y	1-Wire hex, "0x", . 000000000000 FFFFFFFF -

():
 TEMPSINGLEADDR1=000000000008;

():
 TEMPSINGLEADDR1=000000000008;

"UNSUPPORTED_PARAMETER"

GTEMPPARAMS

1-wire

- SMS.
- : 01.02-a4
- : GTEMPPARAMS. TEMPPARAMS.

GTEMPPARAMSx;

TEMPPARAMSx=a,b;

x	, 1...8
a	, hex, "0x", 000000000000 FFFFFFFF -
b	, float

```
( ):
GTEMPPARAMS2 ;
( ):
TEMPPARAMS2=000000000006,15.0 ;
```

```

TEMPADDR TEMPSINGLEADDR 1-Wire
GTEMPPARAMS
1 , GTEMPADDR TEMPSINGLEADDR
TEMPSINGLEADDR
1-Wire
"x" GTEMPPARAMS
1 (GTEMPPARAMS1); FFFFFFFF " "
"UNSUPPORTED_PARAMETER"
```


IBUTTONID

1-wire

iButton.

- SMS.
- : 01.02-a4 .
- : GIBUTTONID.

:

IBUTTONID=x;

:

x	<ul style="list-style-type: none"> • 0 - ; • 1 -
---	--

():

IBUTTONID=1 ;

():

IBUTTONID=1 ;

IBUTTONOFFWRITE

1-wire

iButton.

- SMS.
- : 01.02-a4 .
- : GIBUTTONOFFWRITE.

:
 IBUTTONOFFWRITE=x;

x	, 0...3600 . 0 -
---	------------------

():
 IBUTTONOFFWRITE=0 ;

():
 IBUTTONOFFWRITE=0 ;

IBUTTONREPEATWRITE

1-wire

iButton.

- SMS.
- : 01.02-a4 .
- : GIBUTTONREPEATWRITE.

:
IBUTTONREPEATWRITE=x;

x	, 0...3600 , - 5.0 -
---	----------------------

():
IBUTTONREPEATWRITE=10 ;

():
IBUTTONREPEATWRITE=10 ;

FUELTANKPERIOD	
FUELTANKADDR	
FUELTANKDATA	,
FUELTANKPARAMS	
FUELTANKSYSTEM	
IGLAPASSIVE	()" "
IGLACONF	" "
STRUNACONF	"Struna+"

FUELTANKPERIOD

- SMS.
- : 13.20
- : GFUELTANKPERIOD.

:
 FUELTANKPERIOD=period;

period	, 5...3600 .0 -
--------	-----------------

():
 FUELTANKPERIOD= 30 ;

():
 FUELTANKPERIOD= 30 ;

FUELTANKADDR

- SMS.
- : 13.20
- : GFUELTANKADDR.

FUELTANKADDRx=addr;

x	(dec), , 01...16
addr	, "0x". 00 FF -

():

FUELTANKADDR01=F0;

():

FUELTANKADDR01=F0;

FUELTANKDATA

- SMS.
- : 13.20
- : GFUELTANKDATA.

FUELTANKDATAx=data;

x	(dec), 01...16
data	HEX, "0x". HEX
	• 0001 - , H, (, Struna+);
	• 0002 - , M, (, Struna+);
	• 0004 - , V, (, Struna+);
	• 0008 - , P , /(^3) (, Struna+);
	• 0010 - , T , . (, Struna+);
	• 0020 - , H , (, Struna+);
	• 0040 - ;
	• 0080 - ;
	• 0100 - ;
	• 0200 - ;
	• 0400 - ;
	• 0800 - ;
	• 1000 - , P , /(^3) ();
	• 2000 - ;
	• 4000 - ;
	• 8000 - ;

():

// 16

FUELTANKDATA16=1031;

():

FUELTANKDATA16=1031;

FUELTANKPARAMS

- SMS.
- : 13.20
- : GFUELTANKPARAMS.

GFUELTANKPARAMSx;

FUELTANKPARAMSx=addr:u1,n1,v1:u2,n2,v2:u3,n3,v3:u4,n4,v4:u5,n5,v5:u6,n6,v6:u7,n7,v7:u8,n8,v8:u9,n9,v9:u10,n10,v10:u11,n11,v11:u12,n12,v12:u13,n13,v13:u14,n14,v14:u15,n15,v15:u16,n16,v16;

x	(dec), 01...16
addr	00 FF
um	m (m = 1...16): • 0- ; • 1-
nm	m : • 0- ; • 1-
vm	3 m. : -7.130e+01. m : • 1- , H, ; • 2- , M, ; • 3- , V, ; • 4- , P, /(^3); • 5- , T, . ; • 6- , H, ; • 7- ; • 8- ; • 9-

	• 10-	;	
	• 11-	;	
	• 12-	;	
	• 13-		,P ,/(^3);
	• 14-	;	
	• 15-	;	
	• 16-		

():

GFUELTANKPARAMS7;

():

```
FUELTANKPARAMS7=36:1,1,7.555e+03:1,1,8.807e+03:1,1,6.807e+03:1,1,7.073e+0
2:1,1,7.430e+01:1,1,7.130e+01:0,0,0.000e+00:0,0,0.000e+00:0,0,0.000e+00:0
,0,0.000e+00:0,0,0.000e+00:0,0,0.000e+00:1,1,8.073e+02:0,0,0.000e+00:0,0,
0.000e+00:0,0,0.000e+00;
```

FUELTANKSYSTEM

- SMS.
- : 13.20
- : GFUELTANKSYSTEM.

:
 FUELTANKSYSTEM=system;

system	: <ul style="list-style-type: none"> • 0 - "Struna+"; • 1 - " "
--------	--

():
 FUELTANKSYSTEM=0 ;

():
 FUELTANKSYSTEM=0 ;

IGLAPASSIVE

()" "

- SMS.
- : 13.20 .
- : GIGLAPASSIVE.

:
IGLAPASSIVE=passive;

passive	• 0 - ()
	• 1 - (,)

():
IGLAPASSIVE=1;

():
IGLAPASSIVE=1;

IGLACONF

" "

- SMS.
- : 13.20
- : GIGLACONF.

:

IGLACONF=period,passive:a1,d1:a2,d2:a3,d3:a4,d4:a5,d5:a6,d6:a7,d7:a8,d8:a9,d9:a10,d10:a11,d11:a12,d12:a13,d13:a14,d14:a15,d15:a16,d16;

:

period	, 5...3600 . 0 -
passive	<p>:</p> <ul style="list-style-type: none"> • 0 - () ; • 1 - (,) ,)
an	n (n = 1...16) , "0x". 00 FF -

dn	HEX, "0x".	n.	HEX
	:	:	:
	• 0001 -	,H, ;	
	• 0002 -	,M, ;	
	• 0004 -	,V, ;	
	• 0008 -	,P , /(^3);	
	• 0010 -	,T , . ;	
	• 0020 -	,H , ;	
	• 0040 -	;	
	• 0080 -	;	
	• 0100 -	;	
	• 0200 -	;	
	• 0400 -	;	
	• 0800 -	;	
	• 1000 -	,P , /(^3);	
	• 2000 -	;	
	• 4000 -	;	
	• 8000 -		

():

IGLACONF=120,1:30,103F:31,103F:32,103F:33,103F:34,103F:35,103F:36,103F:37,103F:38,103F:39,103F:3A,103F:3B,103F:3C,103F:3D,103F:3E,103F:3F,1031;

():

IGLACONF=120,1:30,103F:31,103F:32,103F:33,103F:34,103F:35,103F:36,103F:37,103F:38,103F:39,103F:3A,103F:3B,103F:3C,103F:3D,103F:3E,103F:3F,1031;

"FUELTANKSYSTEM"

" "

9600

! /,

RS-232(1)

" " 8-N-1.

RS-232(1)

STRUNACONF

"Struna+".

- SMS.
- : 13.23
- : GSTRUNACONF.

STRUNACONF=period:a1,d1:a2,d2:a3,d3:a4,d4:a5,d5:a6,d6:a7,d7:a8,d8:a9,d9:a10,d10:a11,d11:a12,d12:a13,d13:a14,d14:a15,d15:a16,d16;

period	, 5...3600 . 0 -
an	n (n = 1...16), "0x". 00 FF -
dn	<p>n. , HEX, "0x". HEX</p> <ul style="list-style-type: none"> • 0001 - , H, ; • 0002 - , M, ; • 0004 - , V, ; • 0008 - , P , /(^3); • 0010 - , T , . ; • 0020 - , H , ; • 0040 - , P /(^3); • 0080 - , T , . ; • 0100 - , P , /(^3); • 0200 - , T , . ; • 0400 - , , ; • 0800 - , , ; x10, . ; • 1000 - ; • 2000 - 1, P 1, /(^3); • 4000 - ; • 8000 -

():

STRUNACONF=120:30,0FFF:31,01FE:32,0F2E:33,0FFE:34,0FFE:35,0FFE:36,0FFE:37,0FFE:38,0FFE:39,0FFE:3A,0FFE:3B,0FFE:3C,0FFE:3D,0FFE:3E,0FFE:3F,01F0;

():

STRUNACONF=120:30,0FFF:31,01FE:32,0F2E:33,0FFE:34,0FFE:35,0FFE:36,0FFE:37,0FFE:38,0FFE:39,0FFE:3A,0FFE:3B,0FFE:3C,0FFE:3D,0FFE:3E,0FFE:3F,01F0;

CAN

CANPERIOD	CAN
CANxMODE	CAN
CANxBAUDRATE	CAN
CANxACK	CAN
CANxACTIVE	CAN
CANLEVELPARAMx	CAN
CANLEVELCONTROL	
CANLONGPARAMx	CAN
CANLONGCONTROL	
CANDISCRPARAMx	CAN
CANDISCRCONTROL	
CANGENERICPARAMx	CAN
CANGENERICCONTROL	
CANVINBUS	CAN, (VIN).
GVIN	(VIN)
GCIN	
GCANFF	- CAN (DM4)
GCANDM2	CAN (DM2)
GVCH	(EC1)

CANGENERICTYPEn	CAN
GANALOGADC	

GSMConf 5.0.

CANPERIOD

CAN

CAN

- SMS.
- : 01.02-a4
- : GCANPERIOD.

:

CANPERIOD=x;

:

x	: 30...3600 c. 0 -
---	--------------------

():

CANPERIOD=120;

():

CANPERIOD=120;

CANxMODE

CAN

CAN.

- SMS.
- : 01.02-a4 .
- : GCANxMODE.

:

CANxMODE=mode;

:

x	CAN
mode	CAN: <ul style="list-style-type: none"> • A – ; • P – ,

():

CAN1MODE=A ;

():

CAN1MODE=A ;

CANxBAUDRATE

CAN

CAN.

- SMS.
- : 01.02-a4 .
- : GCANxBAUDRATE.

:
CANxBAUDRATE=baudrate;

:

x	CAN
baudrate	, /

():
CAN1BAUDRATE=19200;

():
CAN1BAUDRATE=19200;

CANxACK

CAN

CAN

- SMS.
- : 01.10-a8
- : GCANxACK.

:

CANxACK=ack;

:

x	CAN
ack	<p style="text-align: center;">:</p> <ul style="list-style-type: none"> • 1 - ; • 0 -

():

CAN1ACK=1 ;

():

CAN1ACK=1 ;

CANxACTIVE

CAN

CAN

CAN

-
-
- : 01.02-a4
- : GCANxACTIVE.

:

CANxACTIVE=active;

:

x	CAN
ack	<ul style="list-style-type: none"> • 1 - ; • 0 -

():

CAN1ACTIVE=1;

():

CAN1ACTIVE=1;

CANLEVELPARAMx

CAN

CAN.

- SMS.
- : 01.05-a4 .
- : GCANLEVELPARAM.

:
CANLEVELPARAMn=i1,i2,i3,d1,d2,d3,c,p1,p2,p3,p4,p5,p6;

n	
i1	<ul style="list-style-type: none"> • 0- . • 1- ID (11) • 2- ID (29) • 3- 11 (ID 11 + ID) • 4- 29 (ID 29 + ID)
i2	<p>hex:</p> <ul style="list-style-type: none"> • i1 = 1 3, i2 = 0...7FF • i1 = 2 4, i2 = 0...1FFFFFFF
i3	<p>i2.</p> <ul style="list-style-type: none"> • i1 = 1 3, i2 = 0...7FF • i1 = 2 4, i2 = 0...1FFFFFFF
d1	<p>* i1 = 3 4*</p> <p>64-</p>
d2	<p>* i1 = 3 4*</p> <p>(1 8)</p>

d3	* i1 = 3 4* (0 FFFFFFFF)
c	CAN: <ul style="list-style-type: none"> • 1 - CAN 1; • 2 - CAN 2
p1	()
p2	(1 64)
p3	(1 8)
p4	: <ul style="list-style-type: none"> • 0 - little endian (); • 1 - big endian ()
p5	.
p6	0 CAN,

i1 i3.

i3

():
 CANLEVELPARAM1=2,FEF100,FFFF00,3,25,9,16,0,0.00390625,0;

():
 CANLEVELPARAM1=2,FEF100,FFFF00,3,25,9,16,0,0.00390625,0;

.

CANLEVELCONTROL

CAN

CAN.

- SMS.
- : 01.05-a4 .
- : GCANLEVELCONTROL CANLEVELCONTROL.

:
GCANLEVELCONTROLn;

:
CANLEVELCONTROLn=a,b;

n	
a	: 0 - , 1 -
b	

():
GCANLEVELCONTROL1 ;

():
CANLEVELCONTROL1=1, 54 ;

CANLONGPARAMx

CAN

CAN.

- SMS.
- : 01.05-a4 .
- : GCANLONGPARAM.

:
CANLONGPARAMn=i1,i2,i3,d1,d2,d3,c,p1,p2,p3,p4,p5,p6;

n	
i1	<ul style="list-style-type: none"> • 0 - . • 1 - ID (11) • 2 - ID (29) • 3 - 11 (ID 11 + ID) • 4 - 29 (ID 29 + ID)
i2	<p>hex:</p> <ul style="list-style-type: none"> • i1 = 1 3, i2 = 0...7FF • i1 = 2 4, i2 = 0...1FFFFFFF
i3	<p>i2.</p> <ul style="list-style-type: none"> • i1 = 1 3, i2 = 0...7FF • i1 = 2 4, i2 = 0...1FFFFFFF
d1	<p>* i1 = 3 4*</p> <p>64-</p>
d2	<p>* i1 = 3 4*</p> <p>(1 8)</p>

d3	* i1 = 3 4* (0 FFFFFFFF)
c	CAN: <ul style="list-style-type: none"> • 1 - CAN 1; • 2 - CAN 2.
p1	()
p2	(1 64)
p3	(1 8)
p4	: <ul style="list-style-type: none"> • 0 - little endian (); • 1 - big endian ().
p5	.
p6	0 CAN,

i1 i3.

i3

```
( ):
CANLONGPARAM1=2,FEE900,FFFF00,3,1,33,32,0,0.5,0;
```

```
( ):
CANLONGPARAM1=2,FEE900,FFFF00,3,1,33,32,0,0.5,0;
```

.

CANLONGCONTROL

CAN

CAN.

- SMS.
- : 01.05-a4 .
- : GCANLONGCONTROL.

:
GCANLONGCONTROLn;

:
CANLONGCONTROLn=a,b;

n	
a	: 0 - , 1 -
b	

():
GCANLONGCONTROL1 ;

():
GCANLONGCONTROL1 ;

CANDISCRPARAMx

CAN

CAN.

- SMS.
- : 01.05-a4 .
- : GCANDISCRPARAM.

:
CANDISCRPARAMn=i1,i2,i3,d1,d2,d3,c,p1,p2,p3,p4,p5,p6,p7;

n	
i1	<ul style="list-style-type: none"> • 0- . • 1- ID (11) • 2- ID (29) • 3- 11 (ID 11 + ID) • 4- 29 (ID 29 + ID)
i2	<p>hex:</p> <ul style="list-style-type: none"> • i1 = 1 3, i2 = 0...7FF • i1 = 2 4, i2 = 0...1FFFFFFF
i3	<p>i2.</p> <ul style="list-style-type: none"> • i1 = 1 3, i2 = 0...7FF • i1 = 2 4, i2 = 0...1FFFFFFF
d1	<p>* i1 = 3 4*</p> <p>64-</p>
d2	<p>* i1 = 3 4*</p> <p>(1 8)</p>

d3	* i1 = 3 4* (0 FFFFFFFF)
c	CAN: <ul style="list-style-type: none"> • 1 - CAN 1; • 2 - CAN 2
p1	()
p2	, : 1...64
p3	, , : 1...32
p4	, : 1...64
p5	1 - ; 0 -
p6	, : 0 1
p7	: <ul style="list-style-type: none"> • 0 - little endian (); • 1 - big endian ()

i1 i3.

i3

```
( ):  
CANDISCRPARAM1=2,FEF100,FFFF00,3,1,29,1,30,1,0,0;
```

```
( ):  
CANDISCRPARAM1=2,FEF100,FFFF00,3,1,29,1,30,1,0,0;
```

CANDISCRCONTROL

CAN

CAN.

- SMS.
- : 01.05-a4 .
- : GCANDISCRCONTROL.

:
GCANDISCRCONTROLn;

:
CANDISCRCONTROLn=a,b;

n	
a	: 0 - , 1 -
b	hex "0x"

():
GCANDISCRCONTROL1;

():
CANDISCRCONTROL1=0, 0x04;

CANGENERICPARAMx

CAN

CAN.

- SMS.
- : 01.05-a4 .
- : GCANGENERICPARAM.

:
CANGENERICPARAMn=t,i1,i2,i3,k1,k2,k3,c,l1(d1),l2(d2),l3(d3),l4(d4),l5(d5),(d6);

n	
t	: • 1- ; • 2-
i1	: • 0- . • 1- ID (11) • 2- ID (29) • 3- 11 (ID 11 + ID) • 4- 29 (ID 29 + ID)
i2	hex: • i1 = 1 3, i2 = 0...7FF • i1 = 2 4, i2 = 0...1FFFFFFF
i3	“ ” i2. : • i1 = 1 3, i2 = 0...7FF • i1 = 2 4, i2 = 0...1FFFFFFF
k1	(1 64)
k2	, (1 32)

k3	(0 FFFFFFFF)
c	: • 1 - CAN 1; • 2 - CAN 2
l1	* t=1* (1 64)
l2	* t=1* (1 32)
l3	* t=1* : • 0 - little endian; • 1 - big endian
l4	* t=1* ,
l5	* t=1* ,
d1	* t=2* (1 64)
d2	* t=2* (1 64)
d3	* t=2* (1 64)
d4	* t=2* 1 - ; 0 -
d5	* t=2* (0 1)

d6	<p>* t=2*</p> <p>:</p> <ul style="list-style-type: none"> • 0 - little endian; • 1 - big endian
----	---

i1 i3.

i3

():
 CANGENERICPARAM1=2,0,0,1,0,1,0,0,0;

():
 CANGENERICPARAM1=2,0,0,1,0,1,0,0,0;

CANGENERICCONTROL

CAN

CAN.

- SMS.
- : 01.05-a4 .
- : GCANGENERICCONTROL.

:
GCANGENERICCONTROLn;

:
CANGENERICCONTROLn=a,t,b;

n	
a	: 0 - , 1 -
b	t: <ul style="list-style-type: none"> • GENERIC_CAN_TYPE_LEVEL - (float); • GENERIC_CAN_TYPE_DISCRETE - (uint), hex "0x"

():
GCANGENERICCONTROL1;

():
CANGENERICCONTROL1=0, 0x09;

CANVINBUS

CAN

CAN,

(VIN).

- SMS.
- : 13.25 .
- : GCANVINBUS.

:

CANVINBUS=can;

:

	CAN,	:
can	• 0 - ;	
	• 1 - CAN1;	
	• 2 - CAN2	

:

CANVINBUS=1 ;

:

CANVINBUS=1 ;

CAN *PGN 65260.*

CAN *VEHICLE_VIN.*

CANxACTIVE

GVIN CAN

(VIN).

- SMS.
- : 13.25
- : GVIN.

GVIN=can;

VIN=vin;

can	CAN,	: 1, 2
vin	(VIN)	

GVIN=1 ;

VIN=WAUZZZ44ZEN096063 ;

CAN (*CAN* *PGN 65260.* *CANxACTIVE*).

GCIN CAN

- SMS.
- : 13.25
- : GCIN.

GCIN=can;

CIN=a*b*c*d*;

can	CAN,	: 1, 2
a		
b		
c		
d		

GCIN=1;

CIN=TK*AutoGRAPH*3100000**;

CAN (*CAN* *PGN 65259.* *CANxACTIVE*).

GCANFF

CAN

- CAN (DM4).

- SMS.
- : 13.25 .
- : GCANFF.

:

GCANFF=can;

:

can	CAN,	: 1, 2
-----	------	--------

:

CANFF=OK;

:

GCANFF=1 ;

:

CANFF=OK ;

CAN . *CAN* *PGN65229.*
(. CANxACTIVE).

GCANDM2

CAN

CAN (DM2).

- SMS.
- : 13.25
- : GCANDM2.

:

GCANDM2=can;

:

can	CAN,	: 1, 2
-----	------	--------

:

CANDM2=OK;

:

GCANDM2=1 ;

:

CANDM2=OK ;

CAN

CAN
(.

PGN65227.
CANxACTIVE.

GVCH CAN

(EC1).

- SMS.
- : 13.25 .

:

GVCH=can;

:

can	CAN,
-----	------

:

VCH=OK ;

:

GVCH=1 ;

:

VCH=OK ;

CAN . *CAN* *PGN 65251.*
(. CANxACTIVE).

CANGENERICTYPEn

CAN

CAN.

- SMS.
- : 13.31 .
- : GCANGENERICTYPEn.

:
CANGENERICTYPEn=type;

n	
t	, 0..65534

:
CANGENERICTYPE01=25 ;

:
CANGENERICTYPE01=25 ;

GANALOGADC

CAN

- SMS.
- : 13.33
- : GANALOGADC.

:
GANALOGADCx;

x	(1 2)
---	-------

:
ANALOGADCx=value;

value	(10) x-
-------	----------

:
GANALOGADC1 ;

:
ANALOGADC1=1023 ;

TACHOMODE	
TACHOCARDn	
TACHOCARDTIME _n	
TACHOTRANSFER	
TACHODI	()
TACHOTCO	(TC01)
TACHOSOURCEDI	' ()
TACHOSOURCETCO	' (TC01)
TACHOSTATE	

TACHOMODE

- SMS.
- : 13.21
- : GTACHOMODE.

TACHOMODE=mode;

mode	• 0 -		
	• 1 -	- RUS	CAN (1);
	• 2 -	- RUS	RS485 (1);
	• 3 -	VDO	RS232 (1);
	• 4 -	- RUS	CAN (2);
	• 5 -	- RUS	RS485 (2)

TACHOMODE=3 ;

TACHOMODE=3 ;

TACHOCARDn

- SMS.
- : 13.21
- : GTACHOCARD.

TACHOCARDn=card;

n	(1..2)
card	.ddd)

(): GTACHOCARD1 ;

(): TACHOCARD1=RUD0000136511200 ;

TACHOCARDTIME_n

- SMS.
- : 13.21
- : GTACHOCARDTIME.

:
TACHOCARDTIME_n=time;

n	(1..2)
time	() ,
	1 1970 .

(, TACHOCARDTIME1=0; 1).

():
GTACHOCARDTIME1;

():
TACHOCARDTIME1=19383;

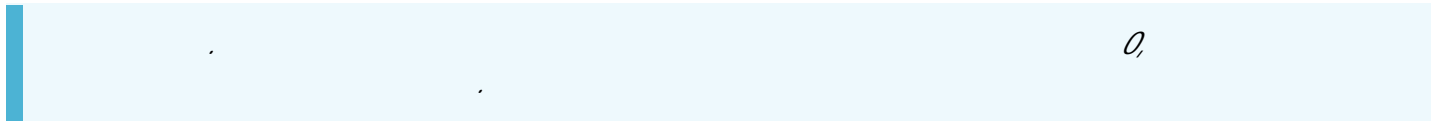
TACHOTRANSFER

- SMS.
- : 13.21 .
- : GTACHOTRANSFER.

:
GTACHOTRANSFER;

:
TACHOTRANSFER=time1,time2;

time1	() 1,
	1 1970 .
time2	() 2,
	1 1970 .



():
GTACHOTRANSFER;

():
TACHOTRANSFER=19383,19030;

TACHODI

().

- SMS.
- : 13.21
- : TACHODI, GTACHODI.

TACHODI=n;

TACHODI=n,di,time;

n	<ul style="list-style-type: none"> • 3 - CAN1 (J1939); • 4 - CAN1 (UDF); • 5 - CAN2 (J1939); • 6 - CAN2 (UDF)
di	Driver's Identification, '*'
time	' , '

():

TACHODI=0;

():

TACHODI=0 , RUD0000137092101** , 722;

TACHOTCO

(TCO1).

- SMS.
- : 13.21
- : TACHOTCO, GTACHOTCO.

GTACHOTCO=n;

TACHOTCO=n,recvTime,saveTime:d1ws,d2ws,dr,d1trs,dcd1,overspeed,d2trs,dcd2,se,he,tp,di,toss,tvs;

n	<ul style="list-style-type: none"> • 2 - CAN1 (J1939); • 3 - CAN2 (J1939)
recvtime	(TCO1)
savetime	(TCO1)
d1ws	Driver 1 working state 1612
d2ws	Driver 2 working state 1613
dr	Drive recognize 1611
d1trs	Driver 1 Time Related States 1617
dcd1	Driver card, driver 1 1615
overspeed	Overspeed 1614
d2trs	Driver 2 Time Related States 1618
dcd2	Driver card, driver 2 1616
se	System event 1622
he	Handling information 1621

tp	Tachograph performance 1620
di	Direction indicator 1619
toss	Tachograph output shaft speed 1623
tvS	Tachograph vehicle speed 1624

CAN J1939

TCO1 (Tachograph)

():

`GTACHOTCO=0;`

():

`TACHOTCO=0,563,471485:1,0,3,0,1,3,0,0,3,0,0,3,65535,0;`

TACHOSOURCEDI

- SMS.
- : 13.21
- : GTACHOSOURCEDI.

:
TACHOSOURCEDI=source;

source	• 0 - ;
	• 1 - ;
	• 2 - CAN (J1939);
	• 4 - CAN (UDF);
	• 7 - ;
	• 8 - CAN1 (J1939);
	• 16 - CAN1 (UDF);
	• 32 - CAN2 (J1939);
	• 64 - CAN2 (UDF)

16 - CAN1 (UDF) 64 - CAN2 (UDF)

():
TACHOSOURCEDI=7;

():
TACHOSOURCEDI=7;

TACHOSTATE

- SMS.
- : 13.26
- : TACHOSTATE, GTACHOSTATE.

TACHOSTATE;

TACHOSTATE=state,card,progress;

state	0 - ; 1 - ; 2 - .ddd ; 3 - .ddd
card	, .ddd
progress	.ddd ,

(): GTACHOSTATE ;

(): TACHOSTATE=2,1,13400 ;

USB

CDCMODE	USB CDC

CDCMODE

USB CDC

USB CDC.

- SMS
- : 01.02-a4
- : GCDCMODE

:
CDCMODE=mode;

mode	• 0-	NMEA RMC (
	• 1- ;);
	• 2- GSM	;
	• 3- COM-	
	• 4- (.GSMConf);	Wi-Fi COM-

():
CDCMODE=3 ;

():
CDCMODE=3 ;

GACCELVECTORS	()
ACCELMATRIX	()
RECALIBRATION	
FIXCALIBRATION	(.ACCELVECTORS)
GACCELRAW	

GACCELVECTORS

().

- SMS.
- : 01.02-a4 .

:

ACCELVECTORS=directX,directY,directZ(directN),zeroX,zeroY,zeroZ(zeroN);

:

directX, directY, directZ	X,Y Z () ,
directN	,
zeroX, zeroY, zeroZ	X,Y Z ,
zeroN	,

():

GACCELVECTORS ;

():

ACCELVECTORS=-10,30,15(4),0,0,0(0) ;

ACCELMATRIX

()

- SMS.
- : 01.02-a4
- : GACCELMATRIX.

:

ACCELMATRIX=isCalibrated,directN:a11,a12,a13:a21,a22,a23:a31,a32,a33;

:

isCalibrated	<ul style="list-style-type: none"> • 1 - ; • 0 -
directN	,
a11,a12,a13: a21,a22,a23: a31,a32,a33	3 3, (float)

():

GACCELMATRIX;

():

ACCELMATRIX=1,18:0.000247838,0.00242128,-0.000282824:-0.00243428,0.000260957,0.000100917:0.000129842,0.000270767,0.00243183;

RECALIBRATION

-
-
-
-

SMS.

: 01.02-a4

: - .

:

RECALIBRATION;

():

RECALIBRATION;

():

RECALIBRATION;

FIXCALIBRATION

(.ACCELVECTORS).

- SMS.
- : 01.02-a4 .
- :- .

:

FIXCALIBRATION=isCalibrated,directN;

:

isCalibrated	(1 - , 0 -)
directN	,

():

FIXCALIBRATION;

():

FIXCALIBRATION=1,4;

GACCELRAW

- SMS.
- : 13.22
- :-

ACCELRAW=rawX,rawY,rawZ:vehicleX,vehicleY,vehicleZ

rawX, rawY, rawZ	X,Y Z
vehicleX, vehicleY, vehicleZ	X,Y Z / 2

():

GACCELRAW;

():

ACCELRAW=-255,-14,1287:-0.940214,0.370395,9.71189;

C	
SPEEDPOROGn	
DRVACCELPOROG	
DRVBRKPOROG	
DRVEXTRPOROG	
DRVRIGHTPOROG	()
DRVLEFTPOROG	()
DRVHOLEPOROG	()
DRVACCELTIME	
DRVBRKTIME	
DRVEXTRTIME	
DRVRIGHTTIME	
DRVLEFTTIME	
DRVHOLETIME	()
TESTECODRIVE	
AUTOECODRIVE	
ECODRIVINGRECORD	
DRVMOBILE	

DRVTILPOROG	
DRVILTTIME	

SPEEDPOROGn

- SMS.
- : 01.02-a4
- : GSPEEDPOROGn.

SPEEDPOROGn=speed;

n	, 1..3
speed	(/)

():
SPEEDPOROG1=60;

():
SPEEDPOROG1=60;

DRVACCELPOROG

- SMS.
- : 01.02-a4
- : GDRVACCELPOROG.

:
DRVACCELPOROG=threshold;

:

threshold	(/ ²)
-----------	--------

():
DRVACCELPOROG=5.3 ;

():
DRVACCELPOROG=5.3 ;

DRVBRKPOROG

- SMS.
- : 01.02-a4
- : GDRVBRKPOROG.

:
 DRVBRKPOROG=threshold;

threshold	(/ ²)
-----------	--------

():
 DRVBRKPOROG=5.1;

():
 DRVBRKPOROG=5.1;

DRVEXTRPOROG

- SMS.
- : 01.02-a4
- : GDRVEXTRPOROG.

:
 DRVEXTRPOROG=threshold;

threshold	,	(/ ²)
-----------	---	--------------------

():
 DRVEXTRPOROG=15.5 ;

():
 DRVEXTRPOROG=15.5 ;

DRVRIGHTPOROG

()

- SMS.
- : 01.02-a4 .
- : GDRVRIGHTPOROG.

:

DRVRIGHTPOROG=threshold;

:

threshold	,	(/ ²)
-----------	---	--------------------

():

DRVRIGHTPOROG=5.5 ;

():

DRVRIGHTPOROG=5.5 ;

DRVLEFTPOROG

()

- SMS.
- : 01.02-a4 .
- : GDRVLEFTPOROG.

:
 DRVLEFTPOROG=threshold;

threshold	,	(/ ²)
-----------	---	--------------------

():
 DRVLEFTPOROG=5.4 ;

():
 DRVLEFTPOROG=5.4 ;

DRVHOLEPOROG

()

- SMS.
- : 01.02-a4
- : GDRVHOLEPOROG.

:
DRVHOLEPOROG=threshold;

threshold	,	(/ ²)
-----------	---	--------------------

():
DRVHOLEPOROG=30.5;

():
DRVHOLEPOROG=30.5;

DRVACCELTIME

- SMS.
- : 01.02-a4
- : GDRVACCELTIME.

:
 DRVACCELTIME=duration;

duration	()
----------	-----

():
 DRVACCELTIME=500 ;

():
 DRVACCELTIME=500 ;

DRVBRKTIME

- SMS.
- : 01.02-a4
- : GDRVBRKTIME.

:
 DRVBRKTIME=duration;

duration	()
----------	-----

():
 DRVBRKTIME=500;

():
 DRVBRKTIME=500;

DRVEXTRTIME

- SMS.
- : 01.02-a4
- : GDRVEXTRTIME.

:
 DRVEXTRTIME=duration;

duration	()
----------	-----

():
 DRVEXTRTIME=500 ;

():
 DRVEXTRTIME=500 ;

DRVRIGHTTIME

- SMS.
- : 01.02-a4 .
- : GDRVRIGHTTIME.

:
 DRVRIGHTTIME=duration;

duration	()
----------	-----

():
 DRVRIGHTTIME=700 ;

():
 DRVRIGHTTIME=700 ;

DRVLEFTTIME

- SMS.
- : 01.02-a4
- : GDRVLEFTTIME.

:
 DRVLEFTTIME=duration;

duration	()
----------	-----

():
 DRVLEFTTIME=700;

():
 DRVLEFTTIME=700;

DRVHOLETIME

().

- SMS.
- : 01.02-a4 .
- : GDRVHOLETIME.

:
 DRVHOLETIME=duration;

duration	()
----------	-----

():
 DRVHOLETIME=100 ;

():
 DRVHOLETIME=100 ;

TESTECODRIVE

- AUTOECODRIVE. 15
- SMS.
- : 01.02-a4
- : GTESTECODRIVE.

TESTECODRIVE=mode;

mode	(1 - , 0 -) 1.0 / 2
------	-------------------------

():
 TESTECODRIVE=1 ;

():
 TESTECODRIVE=1 ;

AUTOECODRIVE

TESTECODRIVE

15

- SMS.
- : 01.02-a4
- : GAUTOECODRIVE.

AUTOECODRIVE=vehicleType;

vehicleType	<ul style="list-style-type: none"> • 0 - ; • 1 - ; • 2 -
-------------	---

():
 AUTOECODRIVE=1 ;
 ():
 AUTOECODRIVE=1 ;

ECODRIVINGRECORD

- SMS.
- : 01.02-a4
- :-

ECODRIVINGRECORDn;

ECODRIVINGRECORDn=(N)name,isEnded,duration,accelMax,accelMedia:MAXfixed,maxDuration,maxAccelMax,macAccelMedia;

n	() ;
N	(), ;
name	(): <ul style="list-style-type: none"> • ACCELERATION - • BREAKING - • EXTRBREAKING- • RIGHTTURN - • LEFTTURN - • HOLE - ()
isEnded	(0 - , 1 -);
duration	, ;
accelMax	, / ² ;
accelMedia	, / ² ;
fixed	();
maxDuration	, ;
maxAccelMax	, / ² ;
maxAccelMedia	, / ²

():

ECODRIVINGRECORD6 ;

():

ECODRIVINGRECORD6=(6)HOLE,0,0,0.000000,0.000000:MAX0,0,0.000000,0.000000;

DRVMOBILE

- SMS.
- : 13.30
- : GDRVMOBILE.

DRVMOBILE=mode;

mode	<ul style="list-style-type: none"> • 1- () ; • 0-
------	--



():

DRVMOBILE=0 ;

():

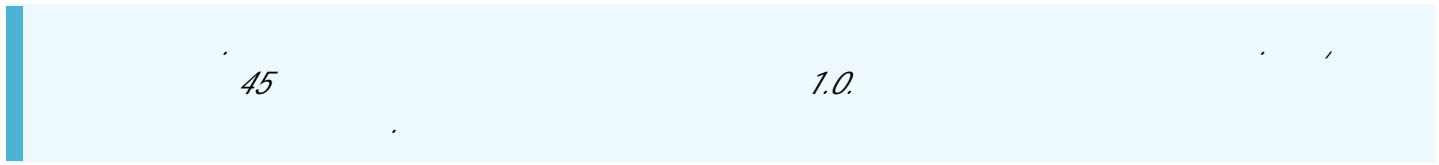
DRVMOBILE=0 ;

DRVTILTPOROG

- SMS.
- : 13.30
- : GDRVTILTPOROG.

:
DRVTILTPOROG=slope;

slope	()
-------	-----



():

DRVTILTPOROG=1.0;

():

DRVTILTPOROG=1.0;

DRVTILTTIME

- SMS.
- : 13.30
- : GDRVTILTTIME.

:
 DRVTILTTIME=duration;

duration	()
----------	-----

():
 DRVTILTTIME=100;
 ():
 DRVTILTTIME=100;

TESTECODRIVE

•

:

AUTOECODRIVE.

15

-
-
-

SMS.

: 01.02-a4

:---

:

TESTECODRIVE=mode;

:

mode	<p>1.0 / ^2:</p> <ul style="list-style-type: none"> • 1- ; • 0- .
------	---

()::

TESTECODRIVE=1;

()::

TESTECODRIVE=1;

- EVENTSOURCE_n.
- (EVENTTYPE_n)
- (EVENTCONDITION_n).
- EVENTACTION_n.

EVENTSOURCE _n	
EVENTTYPE _n	()
EVENTCONDITION _n	
EVENTDELAY _n	(" ")
EVENTACTION _n	
PULSEDURATION _n	
EVENTTELNUM _n	/ SMS
EVENTALIAS _n	() SMS
EVENTCOMMAND _n	
EVENTTRIGGER _n	
EVENTSTATE _n	
EVENTDETRIGGER _n	
EVENTFLAG _n	" "
SCRIPTSCRIPT _n	

SCRIPTSCOMMANDn

()

EVENTSOURCE_n

- SMS.
- : 01.02-a4
- : GEVENTSOURCE.

EVENTSOURCE_n=source;

n	, 01..16.
source	<ul style="list-style-type: none"> • 0- ; • 1- (. DeviceFlags); • 2- ; • 3- (. DiscrParamId); • 4- ; • 5- (); • 6- (. DeviceInputsFlags)

EVENTSOURCE01=1; ():

EVENTSOURCE01=1; ():

EVENTTYPE_n

() .

- SMS.
- : 01.02-a4 .
- : GEVENTTYPE_n.

:

EVENTTYPE_n=type;

:

n	, 01..16
type	<p>() . <u>EVENTSOURCE</u>:</p> <ul style="list-style-type: none"> • EVENTSOURCE 1, (<u>DeviceFlags</u> ")}; • EVENTSOURCE 2, - ADAPTIVE; • EVENTSOURCE 3, (<u>DiscrParamId</u> ")}; • EVENTSOURCE 5, : 0 - , 1 - " , 2 - " " ; • EVENTSOURCE 6, (. <u>DeviceInputsFlags</u> ")}; • EVENTSOURCE

():

EVENTTYPE01=1;

():

EVENTTYPE01=1;

EVENTCONDITIONn

- SMS.
- : 01.02-a4
- : GEVENTCONDITIONn.

EVENTCONDITIONn=con;

n	, 01..16
con	<p>EVENTSOURCE:</p> <ul style="list-style-type: none"> • EVENTSOURCE 1, (0 1); • EVENTSOURCE 2, (AdaptiveLevelEvent); • EVENTSOURCE 3, (DiscrParamId, 0 1); • EVENTSOURCE 5, (0 1); <p>- 1, 1 - 2 . .)</p>

():
EVENTCONDITION01=1;

():
EVENTCONDITION01=1;

EVENTDELAYn

(" ").

- SMS.
- : 01.02-a4
- : GEVENTDELAYn.

EVENTDELAYn=time;

n	, 01..16
time	" (EVENTSOURCE = 1 3)

():

EVENTDELAY01=3;

():

EVENTDELAY01=3;

EVENTACTIONn

- SMS.
- : 01.02-a4
- : GEVENTACTIONn.

EVENTACTIONn=action;

n	, 01..16
action	<p>HEX, "0x".</p> <p>hex :</p> <ul style="list-style-type: none"> • 0 - • 1 - • 2 - • 4 - 1 (1) • 8 - 1 (1) • 10 - 1 (1) • 20 - 2 (2) • 40 - 2 (2) • 80 - 2 (2) • 100 - 1 () • 200 - 1 • 400 - • 800 - (<u>EVENTCOMMANDn</u>) • 1000 - 1, (.1) • 2000 - 2, (.2) • 4000 - • 8000 - • 10000 -

• 20000 -			1 (
)			
• 40000 -	3 (3)
• 80000 -	3 (3)
• 100000 -		3 (3)
• 200000 -	3,		(
3)			

():

EVENTACTION01=2;

():

EVENTACTION01=2;

PULSEDURATIONn

- SMS.
- : 01.02-a4
- : GPULSEDURATIONn.

:
PULSEDURATIONn=dur;

n	, 01..16
dur	,

():
PULSEDURATION01=10;

():
PULSEDURATION01=10;

EVENTTELNUMn

SMS /

- SMS.
- : 01.02-a4
- : GEVENTTELNUMn.

EVENTTELNUMn=num;

n	, 01..16
num	, SMS / 16

():
 EVENTTELNUM01=+79512346789;

():
 EVENTTELNUM01=+79512346789;

EVENTALIASn

() , SMS

- SMS.
- : 01.02-a4
- : GEVENTALIASn.

:

EVENTALIASn=alias;

:

n	, 01..16
alias	() , SMS 8 -

():

EVENTALIAS01=Ignition;

():

EVENTALIAS01=Ignition;

EVENTCOMMANDn

- SMS.
- : 01.02-a4
- : GEVENTCOMMANDn.

:
EVENTCOMMANDn=command;

n	, 01..16.
command	, 64

():
EVENTCOMMAND01=EVENTTRIGGER02;

():
EVENTCOMMAND01=EVENTTRIGGER02;

EVENTTRIGGERn

SMS.

: 01.02-a4

: ---.

:

EVENTTRIGGERn;

:

n	, 01..16
---	----------

():

EVENTTRIGGER01;

():

EVENTTRIGGER01;

GEVENTSTATEn

SMS.
: 01.02-a4
: ---.

GEVENTSTATEn;

EVENTSTATEn=eventState,eventTrigger,eventDeTrigger,sourceState,eventTime;

n	, 01..16
eventState	: 1 - ; 0 -
eventTrigger	: 1 - ; 0 -
eventDeTrigger	: 1 - ; 0 -
sourceState	(EVENTSOURCE EVENTTYPE)
eventTime	

():
GEVENTSTATE01;

():
EVENTSTATE01=1,1,0,5,0;

EVENTDETRIGGERn

-
- SMS.
- : 01.10-a4
- : ---.

EVENTDETRIGGERn;

n	, 01..16
---	----------

():
EVENTDETRIGGER01 ;

():
EVENTDETRIGGER01 ;

SCRIPTSCRIPTn

- SMS.
- : 13.24
- : GSCRIPTSSCRIPT.

SCRIPTSSCRIPTn="com1;com2;...comN;"

n	, 01..10
com1...comN	" "
	255

SCRIPTSCRIPT01="EVENTACTION01=2;EVENTSOURCE01=1;EVENTTYPE01=21;EVENTCONDITION01=1;"

SCRIPTSCRIPT01="EVENTACTION01=2;EVENTSOURCE01=1;EVENTTYPE01=21;EVENTCONDITION01=1;"

1,

SCRIPTCOMMAND01=StopCar;
SCRIPTCOMMAND02=StartCar;

SCRIPTSCRIPT01="EVENTACTION01=800;EVENTTYPE01=21;EVENTCONDITION01=1;EVENTCOMMAND01=MOUT1=1;EVENTSOURCE01=1;"
SCRIPTSCRIPT02="EVENTACTION01=0;EVENTSOURCE01=0;EVENTTYPE01=0;EVENTCONDITION01=0;EVENTCOMMAND01=;EVENTDETRIGGER01;MOUT1=0;"

StopCar, 1,

StartCar

SCRIPTSCOMMANDn

()

- SMS.
- : 13.24
- : GSCRIPTSCOMMAND.

:

SCRIPTSCOMMANDn=command;

:

n	, 01..10
com1...comN	(" "), , 16 - , 0 9

:

SCRIPTSCOMMAND01=StartScript;

:

SCRIPTSCOMMAND01=StartScript;

password StartScript; (*password - 01*)

MOTIONSOURCES	
MOTIONFLAGSOURCE	
MOTIONFLAGSTATE	
MOTIONDISCRETESOURCE	
MOTIONDISCRETESTATE	
MOTIONINPUTSOURCE	
MOTIONINPUTSTATE	
STOPRECORDSMULTIPLIER	
STOPCOORDINATESMULTIPLIER	
STOPTRANSMITMULTIPLIER	
MOTACCELPOROG	
MOTACCELSTICK	
MOTSPEEDPOROG	

MOTIONSOURCES

- SMS.
- : 01.04-a11
- : GMOTIONSOURCES.

:
 MOTIONSOURCES=sources;

sources	(HEX):
	• 0 - ;
	• 0x01 - ;
	• 0x02 - ;
	• 0x04 - ;
	• 0x08 - ;
	• 0x10 - .
HEX,	

```

    0x08 (
    MOTIONFLAGSOURCE.
    )
    0x10 (
    MOTIONDISCRETESOURCE.
    )
  
```

```

    ( " ):
// "
MOTIONSOURCES=10;

// " (10)
" (01)
MOTIONSOURCES=11;

( ):
MOTIONSOURCES=10;
MOTIONSOURCES=11;
  
```


MOTIONFLAGSOURCE

- SMS.
- : 01.04-a11
- : GMOTIONFLAGSOURCE.

MOTIONSOURCES=flag;

:

flag	()	,	
	, HEX:		
	• 1 -	1;	
	• 2 -	2;	
	• 3 -	3;	
	• 4 -	4;	
	• 5 -	5;	
	• 6 -	6;	
	• 7 -	7;	
	• 8 -	8;	
	• 9 -		();
	• 10 -		();
	• 11 -		;
	• 12 -		;
	• 13 -		;
	• 14 -		;
	• 15 -	USB;	
	• 16 -		;
	• 17 -	CAN;	
	• 18 -		;
	• 19 -		;
	• 20 -	GSM	;
	• 21 -		;
	• 22 -	9	();
• 23 -		;	
• 24 -		();	
		HEX,	

():

MOTIONFLAGSOURCE=2;

():

MOTIONFLAGSOURCE=2;

MOTIONFLAGSTATE

- SMS.
- : 01.04-a11
- : GMOTIONFLAGSTATE.

:
 MOTIONFLAGSTATE=state;

	()
	:
state	<ul style="list-style-type: none"> • 0 - ; • 1 -

():
 MOTIONFLAGSTATE=0 ;

():
 MOTIONFLAGSTATE=0 ;

MOTIONDISCRETESOURCE

- SMS.
- : 01.04-a11
- : GMOTIONDISCRETESOURCE.

:
MOTIONDISCRETESOURCE=discr;

discr	. <i>DiscrParamId</i>
-------	---------------------------------------

():
MOTIONDISCRETESOURCE=125 ;

():
MOTIONDISCRETESOURCE=125 ;

MOTIONDISCRETESTATE

- SMS.
- : 01.04-a11
- : GMOTIONDISCRETESTATE.

:
MOTIONDISCRETESTATE=state;

state	(<i>DiscrParamId</i> 0 1)
-------	--

():
MOTIONDISCRETESTATE=1;

():
MOTIONDISCRETESTATE=1;

MOTIONINPUTSOURCE

- SMS.
- : 01.04-a11
- : GMOTIONINPUTSOURCE.

:
MOTIONINPUTSOURCE=input;

input	<p>(DeviceInputsFlags "):</p> <p>HEX,</p>
-------	---

():
MOTIONINPUTSOURCE=2 ;

():
MOTIONINPUTSOURCE=2 ;

MOTIONINPUTSTATE

- SMS.
- : 01.04-a11
- : GMOTIONINPUTSTATE.

:
MOTIONINPUTSTATE=state;

state	0 - ;
	1 -

():
MOTIONINPUTSTATE=1 ;

():
MOTIONINPUTSTATE=1 ;

STOPRECORDSMULTIPLIER

() .

- SMS.
- : 01.04-a11 .
- : GSTOPRECORDSMULTIPLIER.

:

STOPRECORDSMULTIPLIER=mult;

:

mult	: 0-
------	------

0

():

STOPRECORDSMULTIPLIER=10;

():

STOPRECORDSMULTIPLIER=10;

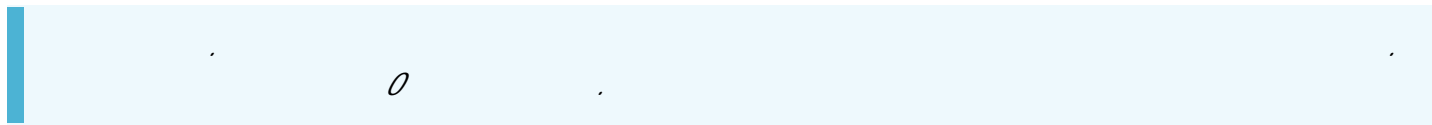
STOPCOORDINATESMULTIPLIER

- SMS.
- : 01.04-a11
- : GSTOPCOORDINATESMULTIPLIER.

:
 STOPCOORDINATESMULTIPLIER=mult;

:

mult	
------	--



():
 STOPCOORDINATESMULTIPLIER=10;

():
 STOPCOORDINATESMULTIPLIER=10;

STOPTRANSMITMULTIPLIER

- SMS.
- : 01.04-a11
- : GSTOPTRANSMITMULTIPLIER.

:
STOPTRANSMITMULTIPLIER=mult;

:

mult	
------	--



():
STOPTRANSMITMULTIPLIER=10;

():
STOPTRANSMITMULTIPLIER=10;

MOTACCELPOROG

- SMS.
- : 13.24
- : GMOTACCELPOROG.

:
MOTACCELPOROG=a;

a	(/ 2). 1
---	--------------

:
MOTACCELPOROG=0.1;

:
MOTACCELPOROG=0.1;

MOTACCELSTICK

- SMS.
- : 13.24
- : GMOTACCELSTICK.

:
MOTACCELSTICK=t;

t	().
---	-----------------

:
MOTACCELSTICK=5 ;

:
MOTACCELSTICK=5 ;

MOTSPEEDPOROG

- SMS.
- : 13.24
- : GMOTSPEEDPOROG.

:
MOTSPEEDPOROG=S;

S	(/).
---	--------

:
MOTSPEEDPOROG=4.0;

:
MOTSPEEDPOROG=4.0;

SCRIPTCOMMANDn	
SCRIPTSCRIPTn	

SCRIPTCOMMANDn

() .

- SMS.
- : 13.24 .
- : GSCRIPTCOMMAND.

:

SCRIPTCOMMANDn=command;

:

n	, 01..10
command	(" "), 16 (

():

SCRIPTCOMMAND01=StartScript;

():

SCRIPTCOMMAND01=StartScript;

SCRIPTSCRIPTn

- SMS.
- : 13.24
- : GSCRIPTSSCRIPT.

SCRIPTSSCRIPTn="com1;com2;...comN;

n	, 01..10
com1 ... comN	(SCRIPTSCOMMANDn). 255

():

SCRIPTSCRIPT01="EVENTACTION01=2;EVENTSOURCE01=1;EVENTTYPE01=21;EVENTCONDITION01=1;

():

SCRIPTSCRIPT01="EVENTACTION01=2;EVENTSOURCE01=1;EVENTTYPE01=21;EVENTCONDITION01=1;

DEBUGCHANNELS	
DIRTREE	

DEBUGCHANNELS

- SMS.
- : 01.04-a4
- : GSTOPTRANSMITMULTIPLIER.

DEBUGCHANNELS=channels;

channels	16-	-	0.
		hex ()	
	• 0x00 -	;	
	• 0x01 -	;	
	• 0x04 -	CAN 1;	
	• 0x08 -	CAN 2;	
	• 0x40 -	i2c;	
	• 0x80 -	;	
	• 0x100 -	;	
	• 0x200 -	AGL ;	
	• 0x400 -	TKIA	RS-232;
	• 0x800 -	;	
	• 0x1000 -	;	
	• 0x4000, -	RS-485 (1);	
• 0x8000 -	RS-485 (2);		
• 0x10000 -	MODBUS		

FFFFFFFF.

():

390

• SMS

//

CAN 2 i2

//

hex:

CAN 2

i2c => 8 + 40 = 48

//

(): 48 -> FFFFFFFB7

DEBUGCHANNELS=FFFFFFB7;

():

DEBUGCHANNELS=FFFFFFB7;

DIRTREE

- SMS.
- : 13.23
- : DIRTREE.

DIRTREE;

DIRTREE=OK;

`DIRTREE;`

`DIRTREE=OK;`

DIRTREE *DIR.*

SENDALLLOG=1;

GSYSFLAGS	
GDEVFLAGS	c
GSMSTATUS	GSM

GSYSFLAGS

- SMS.
- : 01.02-a4
- :---

GSYSFLAGS;

SYSFLAGS=S1V1,S2V2,...,SnVn;

S	<ul style="list-style-type: none"> • C - .GSMConf
V	<ul style="list-style-type: none"> • 1 - ; • 0 -

(): GSYSFLAGS;

(): GSYSFLAGS= 1;

GDEVFLAGS

C

- SMS.
- : 01.02-a4
- : ---.

:

GDEVFLAGS;

:

GDEVFLAGS=S1V1,S2V2,...,SnVn;

:

S	<ul style="list-style-type: none"> • - (1 0); • R - (1 0); • A - (0 10); • U - USB (1 0); • G - GPS (1 0); • S1 - 1 (1 0); • S2 - 2 (1 0); • S3 - 3 (1 0)
V	

():

GDEVFLAGS;

():

DEVFLAGS=B0 , A5 , U1 ;

GSMSTATUS

GSM

- SMS.
- : 01.04-a4
- : ---.

GMODEM1STATUS;

MODEM1STATUS=RSSI,Q,S,P,G,R;

RSSI	RSSI (0..-127)
Q	(0..99)
S	SIM (1 2)
P	(0 1)
G	GPRS (0 1)
R	(0 1)

():
GMODEM1STATUS;

():
MODEM1STATUS=0,85,1,1,1,0;

:

(DeviceFlags)

()		
DF_MASK_READ1	9	()
DF_MASK_READ2	10	()
DF_MASK_BORT	11	
DF_MASK_RESERV	12	
DF_MASK_INANTOK	13	
DF_MASK_OUTANTOK	14	
DF_MASK_USBCONNECT	15	USB
DF_MASK_ALARM	16	
DF_MASK_RPMCAN	17	CAN
DF_MASK_ROAMING	18	
DF_MASK_LOADING	19	
DF_MASK_GSM	20	GSM
DF_MASK_ISSTAND	21	
DF_MASK_AKK_IN	23	
DF_MASK_READ3	24	()

(DeviceInputsFlags)

()		
DF_MASK_INPUT1	1	1
DF_MASK_INPUT2	2	2
DF_MASK_INPUT3	3	3
DF_MASK_INPUT4	4	4
DF_MASK_INPUT5	5	5
DF_MASK_INPUT6	6	6
DF_MASK_INPUT7	7	7
DF_MASK_INPUT8	8	8

DF_MASK_IN9	22	9 ()
DF_MASK_HF_BUTTON = 0x01000000	25	()

(DiscrParamId)

()		
DISCR_INVALID_PARAM	0	.
BRAKE_SWITCH_SPN_597	1	(1, 55, 73-01)
PARKING_BRAKE_SWITCH_SPN_70	2	(1, 55, 73-01)
OIL_PRESSURE_EMERGENCY_LAMP	3	(55, 73-04)
CHECK_ENGINE_LAMP	4	(55, 73-04)
ABS_FAULT_LAMP	5	ABS (55, 73-04)
BRAKE_FAULT_LAMP	6	(55, 73-05)
ESP_FAULT_LAMP	7	ESP (55? , 73-04)
CRUISE_CONTROL_SPN_595	8	- (1, 73-03)
CLUTCH_SWITCH_SPN_598	9	(1, 73-01)
ACCEL_PEDAL_LOW_IDLE_SWITCH_SPN_558	10	
ACCEL_PEDAL_KICKDOWN_SWITCH_SPN_559	11	kickdown
TORQUE_MODE_SPN_899	12	
PTO_STATE_SPN_976	13	PTO
CRUISE_CONTROL_STATE_SPN_527	14	-
IGNITION	15	(55, 73-01)
IGNITION_KEY_IN_LOCK	16	(55, 73-01)
DYNAMIC_IGNITION_2	17	2 (55, 73-01)
WEBASTO	18	Webasto (73-01)
ENGINE_RUN	19	(55, 73-01)
ADD_ENGINE_RUN	20	(73-01)
READY_FOR_MOVE	21	(73-01)
ENGINE_ON_LNG	22	(73-01)

LEFT_FRONT_DOOR_OPEN	23	(55, 73-01)
RIGHT_FRONT_DOOR_OPEN	24	(73-01) , 55.
LEFT_REAR_DOOR_OPEN	25	(73-01) , 55.
RIGHT_REAR_DOOR_OPEN	26	(73-01) , 55.
LUGGAGE_BOOT_DOOR_OPEN	27	(55, 73-01)
ENGINE_HOOD_OPEN	28	(55, 73-01)
CHARGER_WIRE_CONNECTED	29	
BATTERY_CHARGE	30	
AUTO_CLOSED	31	(73-02). 55?
AUTO_CLOSED_BY_STANDARD_RC	32	(55, 73-02)
STANDARD_ALARM_ON	33	(55, 73-02)
STANDARD_ALARM_EMULATION_ON	34	(73-02)
STANDARD_RC_CLOSING_SIGNAL_SENT	35	(73-03)
STANDARD_RC_OPENING_SIGNAL_SENT	36	(73-03)
REPEAT_CLOSING_SIGNAL_SENT	37	(73-03)
LUGGAGE_BOOT_OPENED_BY_RC	38	(55?, 73-03) 55?
CAN_SLEEP_MODE	39	CAN-
STANDARD_RC_CLOSING_SIGNAL_SENT_3_TIMES	40	(73-03)
AGB_PARKING_ON	41	" (73-03)
GB_REVERSE_ON	42	" (73-03)
AGB_NEUTRAL_ON	43	" (73-03)

AGB_MOVE_ON	44	" "	" (73-03)
PARKING_LIGHTS	45	?	(55?, 73-03)
LOW_BEAM_HEADLIGHTS	46		(55, 73-03)
HIGH_BEAM_HEADLIGHTS	47		(55, 73-03)
REAR_FOG_LIGHTS	48		(73-03)
AIR_CONDITIONING	49		(73-03)
AUTO_RETARDER	50		(73-03)
MANUAL_RETARDER	51		(73-03)
DRIVER_SEAT_BELT	52	55 ?	- (55?, 73-03).
FRONT_PASSENGER_SEAT_BELT	53	(55?, 73-03).	55 ? -
REAR_LEFT_PASSENGER_SEAT_BELT	54		(73-03)
REAR_RIGHT_PASSENGER_SEAT_BELT	55		(73-03)
REAR_CENTER_PASSENGER_SEAT_BELT	56		(73-03)
FRONT_PASSENGER_SEAT_BELT_PRESENT	57		(73-03)
ESP_OFF	58	ESP	
STOP_LAMP	59	"STOP"	(55, 73-04)
COOLANT_EMERGENCY_LAMP	60	/	(55, 73-04)
BATTERY_LAMP	61		(55, 73-04)
PARKING_BRAKE_LAMP	62		(55, 73-04)
AIRBAG_LAMP	63		(55, 73-04)

EPS_FAULT_LAMP	64	EPS () (73-04)
WARNING_LAMP	65	! ? ESP? . (55?, 73-04)
EXTERNAL_LIGHTING_FAULT_LAMP	66	(55, 73-04)
TYRES_LOW_PRESSURE_LAMP	67	(55, 73-04)
BRAKE_PADS_WEAR_LAMP	68	(55, 73-04)
LOW_FUEL_LEVEL_LAMP	69	(55, 73-04)
MAINTENANCE_LAMP	70	(73-04)
GLOWPLUG_LAMP	71	(55, 73-04)
DPF_LAMP	72	DPF (, FAP) (55, 73-04);
EPC_LAMP	73	EPC () (55, 73-04)
ENGINE_OIL_LOW_PRESSURE_LAMP	74	(73-05)
ENGINE_OIL_HIGH_PRESSURE_LAMP	75	(73-05)
COOLANT_LOW_LEVEL_LAMP	76	(73-05)
HYDRO_FILTER_LAMP	77	(73-05)
HYDRO_OIL_FILTER_LAMP	78	(73-05)
HYDRO_LOW_PRESSURE_LAMP	79	(73-05)
HYDRO_LOW_LEVEL_LAMP	80	(73-05)
HYDRO_HIGH_TEMPERATURE_LAMP	81	(73-05)

HYDRO_HIGH_LEVEL_LAMP	82	(73-05)
AIR_FILTER_LAMP	83	(73-05)
FUEL_FILTER_LAMP	84	(73-05)
FUEL_WATER_LAMP	85	(73-05)
BRAKE_FILTER_LAMP	86	(73-05)
CATALYST_OVERHEAT_LAMP	87	23 55, (73-05) ?
AGRO_RIGHT_JOYSTICK_RIGHT	88	(73-06)
AGRO_RIGHT_JOYSTICK_LEFT	89	(73-06)
AGRO_RIGHT_JOYSTICK_PUSH	90	(73-06)
AGRO_RIGHT_JOYSTICK_PULL	91	(73-06)
AGRO_LEFT_JOYSTICK_RIGHT	92	(73-06)
AGRO_LEFT_JOYSTICK_LEFT	93	(73-06)
AGRO_LEFT_JOYSTICK_PUSH	94	(73-06)
AGRO_LEFT_JOYSTICK_PULL	95	(73-06)
AGRO_HYDRO_REAR_1	96	
AGRO_HYDRO_REAR_2	97	
AGRO_HYDRO_REAR_3	98	
AGRO_HYDRO_REAR_4	99	
AGRO_HYDRO_FRONT_1	100	
AGRO_HYDRO_FRONT_2	101	
AGRO_HYDRO_FRONT_3	102	
AGRO_HYDRO_FRONT_4	103	
AGRO_THREE_POINT_HITCH_FRONT	104	
AGRO_THREE_POINT_HITCH_REAR	105	
AGRO_PTO_FRONT_SPN_3452	106	
AGRO_PTO_REAR_SPN_3453	107	
AGRO_MOWING	108	
AGRO_THRESHING	109	

AGRO_GRAIN_HOPPER_UNLOADING	110	
AGRO_GRAIN_HOPPER_100_LOAD	111	100%
AGRO_GRAIN_HOPPER_70_LOAD	112	70%
AGRO_GRAIN_HOPPER_OPEN	113	
AGRO_UNLOAD_MECH_ACT_WHEN_TUBE_TAKEN_AWAY	114	
AGRO_CLEANSING_FAN_CTRL_DISABLED	115	.0b01 -
AGRO_THRESHING_DRUM_CTRL_DISABLED	116	.0b01 -
AGRO_STRAW_WALKER_FAULT	117	
AGRO_THRESHING_DRUM_EXCESS_CLEARANCE	118	
US_SALT_THROWER	119	()
US_REAGENTS_POURING	120	
US_CONVEYOR_BELT	121	
US_SALT_THROWER_WHEEL_DRIVE	122	
US_BRUSH	123	
US_VACUUM_CLEANER	124	
US_WATER_SUPPLY	125	
US_WASHING_MACHINE	126	
US_WATER_PUMP	127	
US_HOPPER_UNLOADING	128	
US_SALT_LOW_LEVEL_LAMP	129	()
US_WATER_LOW_LEVEL_LAMP	130	
US_REAGENTS_USAGE	131	
US_COMPRESSOR	132	
US_WATER_VALVE	133	
US_CABIN_MOVED_UP	134	" "
US_CABIN_MOVED_DOWN	135	" "
EDDP_ACCELERATION	136	:
EDDP_BREAKING	137	:

EDDP_EXTRBREAKING	138	:
EDDP_RIGHTTURN	139	:
EDDP_LEFTTURN	140	:
EDDP_HOLE	141	() :
EDDP_RESERVED1	142	
EDDP_RESERVED2	143	
EDDP_RESERVED3	144	
EDDP_RESERVED4	145	
EDDP_SPEEDPOROG1	146	1
EDDP_SPEEDPOROG2	147	2
EDDP_SPEEDPOROG3	148	3
MOT_MOTION_FROM_NAV	149	
MOT_MOTION_FROM_ACCEL	150	
MOT_FAST_MOTION_FROM_NAV	151	
TNS_CURRENT_STATE1	152	1
TNS_CURRENT_STATE2	153	2
TNS_CURRENT_STATE3	154	3
TNS_MAX_STATE1	155	1
TNS_MAX_STATE2	156	2
TNS_MAX_STATE3	157	3
TKAM_1_OUT_1	158	1 1
TKAM_1_OUT_2	159	2 1
TKAM_2_OUT_1	160	1 2
TKAM_2_OUT_2	161	2 2
TKAM_3_OUT_1	162	1 3

TKAM_3_OUT_2	163	2	3
TKAM_4_OUT_1	164	1	4
TKAM_4_OUT_2	165	2	4
TKAM_5_OUT_1	166	1	5
TKAM_5_OUT_2	167	2	5
TKAM_6_OUT_1	168	1	6
TKAM_6_OUT_2	169	2	6
TKAM_7_OUT_1	170	1	7
TKAM_7_OUT_2	171	2	7
TKAM_8_OUT_1	172	1	8
TKAM_8_OUT_2	173	2	8
TKAM_9_OUT_1	174	1	9
TKAM_9_OUT_2	175	2	9
TKAM_10_OUT_1	176	1	10
TKAM_10_OUT_2	177	2	10
TKAM_11_OUT_1	178	1	11
TKAM_11_OUT_2	179	2	11
TKAM_12_OUT_1	180	1	12
TKAM_12_OUT_2	181	2	12
TKAM_13_OUT_1	182	1	13
TKAM_13_OUT_2	183	2	13
TKAM_14_OUT_1	184	1	14
TKAM_14_OUT_2	185	2	14
TKAM_15_OUT_1	186	1	15
TKAM_15_OUT_2	187	2	15
TKAM_16_OUT_1	188	1	16
TKAM_16_OUT_2	189	2	16

NAV_COORDS_VALID	190	
ID_IBUTTON	191	iButton
ID_BLE	192	BLE
ID_CAN	193	CAN
ID_MODBUS	194	MODBUS
POSITION_OF_DOORS_SPN_1821	195	
RAMP_POSITION_SPN_1820	196	/
STATUS_2_OF_DOORS_SPN_3411	197	
CURRENT_GEAR_SPN_523	198	
FUEL_TYPE_SPN_5837	199	
OUTPUT_OK_STATE_1	200	1
OUTPUT_OK_STATE_2	201	2
OUTPUT_OK_STATE_3	202	3

Modbus (GenericParamsId)

()		
GENERIC_MODBUS_PARAM_1	1	Modbus 1
GENERIC_MODBUS_PARAM_2	2	Modbus 2
GENERIC_MODBUS_PARAM_3	3	Modbus 3
GENERIC_MODBUS_PARAM_4	4	Modbus 4
GENERIC_MODBUS_PARAM_5	5	Modbus 5
GENERIC_MODBUS_PARAM_6	6	Modbus 6
GENERIC_MODBUS_PARAM_7	7	Modbus 7
GENERIC_MODBUS_PARAM_8	8	Modbus 8
GENERIC_MODBUS_PARAM_9	9	Modbus 9
GENERIC_MODBUS_PARAM_10	10	Modbus 10
GENERIC_MODBUS_PARAM_11	11	Modbus 11
GENERIC_MODBUS_PARAM_12	12	Modbus 12
GENERIC_MODBUS_PARAM_13	13	Modbus 13

GENERIC_MODBUS_PARAM_14	14	Modbus 14
GENERIC_MODBUS_PARAM_15	15	Modbus 15
GENERIC_MODBUS_PARAM_16	16	Modbus 16
GENERIC_MODBUS_PARAM_17	17	Modbus 17
GENERIC_MODBUS_PARAM_18	18	Modbus 18
GENERIC_MODBUS_PARAM_19	19	Modbus 19
GENERIC_MODBUS_PARAM_20	20	Modbus 20
GENERIC_MODBUS_PARAM_21	21	Modbus 21
GENERIC_MODBUS_PARAM_22	22	Modbus 22
GENERIC_MODBUS_PARAM_23	23	Modbus 23
GENERIC_MODBUS_PARAM_24	24	Modbus 24
GENERIC_MODBUS_PARAM_25	25	Modbus 25
GENERIC_MODBUS_PARAM_26	26	Modbus 26
GENERIC_MODBUS_PARAM_27	27	Modbus 27
GENERIC_MODBUS_PARAM_28	28	Modbus 28
GENERIC_MODBUS_PARAM_29	29	Modbus 29
GENERIC_MODBUS_PARAM_30	30	Modbus 30
GENERIC_MODBUS_PARAM_31	31	Modbus 31
GENERIC_MODBUS_PARAM_32	32	Modbus 32
GENERIC_MODBUS_PARAM_33	33	Modbus 33
GENERIC_MODBUS_PARAM_34	34	Modbus 34
GENERIC_MODBUS_PARAM_35	35	Modbus 35
GENERIC_MODBUS_PARAM_36	36	Modbus 36
GENERIC_MODBUS_PARAM_37	37	Modbus 37
GENERIC_MODBUS_PARAM_38	38	Modbus 38
GENERIC_MODBUS_PARAM_39	39	Modbus 39
GENERIC_MODBUS_PARAM_40	40	Modbus 40
GENERIC_MODBUS_PARAM_41	41	Modbus 41
GENERIC_MODBUS_PARAM_42	42	Modbus 42
GENERIC_MODBUS_PARAM_43	43	Modbus 43
GENERIC_MODBUS_PARAM_44	44	Modbus 44
GENERIC_MODBUS_PARAM_45	45	Modbus 45
GENERIC_MODBUS_PARAM_46	46	Modbus 46
GENERIC_MODBUS_PARAM_47	47	Modbus 47

GENERIC_MODBUS_PARAM_48	48	Modbus 48
GENERIC_MODBUS_PARAM_49	49	Modbus 49
GENERIC_MODBUS_PARAM_50	50	Modbus 50
GENERIC_MODBUS_PARAM_51	51	Modbus 51
GENERIC_MODBUS_PARAM_52	52	Modbus 52
GENERIC_MODBUS_PARAM_53	53	Modbus 53
GENERIC_MODBUS_PARAM_54	54	Modbus 54
GENERIC_MODBUS_PARAM_55	55	Modbus 55
GENERIC_MODBUS_PARAM_56	56	Modbus 56
GENERIC_MODBUS_PARAM_57	57	Modbus 57
GENERIC_MODBUS_PARAM_58	58	Modbus 58
GENERIC_MODBUS_PARAM_59	59	Modbus 59
GENERIC_MODBUS_PARAM_60	60	Modbus 60
GENERIC_MODBUS_PARAM_61	61	Modbus 61
GENERIC_MODBUS_PARAM_62	62	Modbus 62
GENERIC_MODBUS_PARAM_63	63	Modbus 63
GENERIC_MODBUS_PARAM_64	64	Modbus 64
GENERIC_MODBUS_PARAM_65	65	Modbus 65
GENERIC_MODBUS_PARAM_66	66	Modbus 66
GENERIC_MODBUS_PARAM_67	67	Modbus 67
GENERIC_MODBUS_PARAM_68	68	Modbus 68
GENERIC_MODBUS_PARAM_69	69	Modbus 69
GENERIC_MODBUS_PARAM_70	70	Modbus 70
GENERIC_MODBUS_PARAM_71	71	Modbus 71
GENERIC_MODBUS_PARAM_72	72	Modbus 72
GENERIC_MODBUS_PARAM_73	73	Modbus 73
GENERIC_MODBUS_PARAM_74	74	Modbus 74
GENERIC_MODBUS_PARAM_75	75	Modbus 75
GENERIC_MODBUS_PARAM_76	76	Modbus 76
GENERIC_MODBUS_PARAM_77	77	Modbus 77
GENERIC_MODBUS_PARAM_78	78	Modbus 78
GENERIC_MODBUS_PARAM_79	79	Modbus 79
GENERIC_MODBUS_PARAM_80	80	Modbus 80
GENERIC_MODBUS_PARAM_81	81	Modbus 81

GENERIC_MODBUS_PARAM_82	82	Modbus 82
GENERIC_MODBUS_PARAM_83	83	Modbus 83
GENERIC_MODBUS_PARAM_84	84	Modbus 84
GENERIC_MODBUS_PARAM_85	85	Modbus 85
GENERIC_MODBUS_PARAM_86	86	Modbus 86
GENERIC_MODBUS_PARAM_87	87	Modbus 87
GENERIC_MODBUS_PARAM_88	88	Modbus 88
GENERIC_MODBUS_PARAM_89	89	Modbus 89
GENERIC_MODBUS_PARAM_90	90	Modbus 90
GENERIC_MODBUS_PARAM_91	91	Modbus 91
GENERIC_MODBUS_PARAM_92	92	Modbus 92
GENERIC_MODBUS_PARAM_93	93	Modbus 93
GENERIC_MODBUS_PARAM_94	94	Modbus 94
GENERIC_MODBUS_PARAM_95	95	Modbus 95
GENERIC_MODBUS_PARAM_96	96	Modbus 96
GENERIC_MODBUS_PARAM_97	97	Modbus 97
GENERIC_MODBUS_PARAM_98	98	Modbus 98
GENERIC_MODBUS_PARAM_99	99	Modbus 99
GENERIC_MODBUS_PARAM_100	100	Modbus 100

(GenericParamType)

()		
GENERIC_PARAM_NO_DATA	0	
GENERIC_PARAM_UINT	1	(uint32), !
GENERIC_PARAM_INT	2	(int32), !
GENERIC_PARAM_FLOAT	3	' .
GENERIC_PARAM_BITFIELD	4	

(LevelId)

()		
LEVEL_LLS1	1	1, .
LEVEL_LLS2	2	2, .
LEVEL_LLS3	3	3, .
LEVEL_LLS4	4	4, .
LEVEL_LLS5	5	5, .
LEVEL_LLS6	6	6, .
LEVEL_LLS7	7	7, .
LEVEL_LLS8	8	8, .
LEVEL_TEMP1	9	1, 1/16 .
LEVEL_TEMP2	10	2, 1/16 .
LEVEL_TEMP3	11	3, 1/16 .
LEVEL_TEMP4	12	4, 1/16 .
LEVEL_TEMP5	13	5, 1/16 .
LEVEL_TEMP6	14	6, 1/16 .
LEVEL_TEMP7	15	7, 1/16 .
LEVEL_TEMP8	16	8, 1/16 .
LEVEL_INT_CPU_TEMPSSENSOR	17	, . .
LEVEL_VREFINT	18	, .
LEVEL_GNS_ANT_VDD	19	, .
LEVEL_EXT_VDD	20	, .
LEVEL_A_IN_1	21	1, .
LEVEL_A_IN_2	22	2, .

LEVEL_A_EXT_BATTERY	23	
LEVEL_A_INT_BATTERY	24	
VEHICLE_SPEED_SPN_84	25	/
ACCEL_PEDAL_SPN_91	26	, %
FUEL_LEVEL_1_SPN_96	27	1, %
FUEL_LEVEL_2_SPN_96	28	2, %
FUEL_LEVEL_3_SPN_96	29	3, %
FUEL_LEVEL_4_SPN_96	30	4, %
FUEL_LEVEL_5_SPN_96	31	5, %
FUEL_LEVEL_6_SPN_96	32	6, %
ADBLUE_LEVEL_SPN_1761	33	AdBlue, %
RPM_SPN_190	34	/
OIL_PRESSURE_SPN_100	35	,
OIL_TEMP_SPN_175	36	,
COOLANT_TEMP_SPN_110	37	,
FUEL_TEMP_SPN_174	38	,
AMBIENT_AIR_TEMP_SPN_171	39	,
CHARGER_AIR_TEMP_SPN_105	40	,
ENGINE_AIR_INLET_PRES_SPN_106	41	,
ENGINE_CHARGER_BOOST_PRES_SPN_102	42	,
LEVEL_WHEEL_LOAD_1_1	43	1 1,
LEVEL_WHEEL_LOAD_1_2	44	2 1,
LEVEL_WHEEL_LOAD_1_3	45	3 1,
LEVEL_WHEEL_LOAD_1_4	46	4 1,
LEVEL_WHEEL_LOAD_1_5	47	5 1,
LEVEL_WHEEL_LOAD_1_6	48	6 1,
LEVEL_WHEEL_LOAD_2_1	49	1 2,
LEVEL_WHEEL_LOAD_2_2	50	2 2,
LEVEL_WHEEL_LOAD_2_3	51	3 2,
LEVEL_WHEEL_LOAD_2_4	52	4 2,
LEVEL_WHEEL_LOAD_2_5	53	5 2,

LEVEL_WHEEL_LOAD_2_6	54	6	2,
LEVEL_WHEEL_LOAD_3_1	55	1	3,
LEVEL_WHEEL_LOAD_3_2	56	2	3,
LEVEL_WHEEL_LOAD_3_3	57	3	3,
LEVEL_WHEEL_LOAD_3_4	58	4	3,
LEVEL_WHEEL_LOAD_3_5	59	5	3,
LEVEL_WHEEL_LOAD_3_6	60	6	3,
LEVEL_WHEEL_LOAD_4_1	61	1	4,
LEVEL_WHEEL_LOAD_4_2	62	2	4,
LEVEL_WHEEL_LOAD_4_3	63	3	4,
LEVEL_WHEEL_LOAD_4_4	64	4	4,
LEVEL_WHEEL_LOAD_4_5	65	5	4,
LEVEL_WHEEL_LOAD_4_6	66	6	4,
LEVEL_WHEEL_LOAD_5_1	67	1	5,
LEVEL_WHEEL_LOAD_5_2	68	2	5,
LEVEL_WHEEL_LOAD_5_3	69	3	5,
LEVEL_WHEEL_LOAD_5_4	70	4	5,
LEVEL_WHEEL_LOAD_5_5	71	5	5,
LEVEL_WHEEL_LOAD_5_6	72	6	5,
LEVEL_WHEEL_LOAD_6_1	73	1	6,
LEVEL_WHEEL_LOAD_6_2	74	2	6,
LEVEL_WHEEL_LOAD_6_3	75	3	6,
LEVEL_WHEEL_LOAD_6_4	76	4	6,
LEVEL_WHEEL_LOAD_6_5	77	5	6,
LEVEL_WHEEL_LOAD_6_6	78	6	6,
LEVEL_WHEEL_LOAD_7_1	79	1	7,
LEVEL_WHEEL_LOAD_7_2	80	2	7,
LEVEL_WHEEL_LOAD_7_3	81	3	7,
LEVEL_WHEEL_LOAD_7_4	82	4	7,
LEVEL_WHEEL_LOAD_7_5	83	5	7,
LEVEL_WHEEL_LOAD_7_6	84	6	7,
LEVEL_WHEEL_LOAD_8_1	85	1	8,
LEVEL_WHEEL_LOAD_8_2	86	2	8,
LEVEL_WHEEL_LOAD_8_3	87	3	8,

LEVEL_WHEEL_LOAD_8_4	88	4 8,
LEVEL_WHEEL_LOAD_8_5	89	5 8,
LEVEL_WHEEL_LOAD_8_6	90	6 8,
LEVEL_WHEEL_LOAD_9_1	91	1 9,
LEVEL_WHEEL_LOAD_9_2	92	2 9,
LEVEL_WHEEL_LOAD_9_3	93	3 9,
LEVEL_WHEEL_LOAD_9_4	94	4 9,
LEVEL_WHEEL_LOAD_9_5	95	5 9,
LEVEL_WHEEL_LOAD_9_6	96	6 9,
LEVEL_WHEEL_LOAD_10_1	97	1 10,
LEVEL_WHEEL_LOAD_10_2	98	2 10,
LEVEL_WHEEL_LOAD_10_3	99	3 10,
LEVEL_WHEEL_LOAD_10_4	100	4 10,
LEVEL_WHEEL_LOAD_10_5	101	5 10,
LEVEL_WHEEL_LOAD_10_6	102	6 10,
LEVEL_WHEEL_LOAD_11_1	103	1 11,
LEVEL_WHEEL_LOAD_11_2	104	2 11,
LEVEL_WHEEL_LOAD_11_3	105	3 11,
LEVEL_WHEEL_LOAD_11_4	106	4 11,
LEVEL_WHEEL_LOAD_11_5	107	5 11,
LEVEL_WHEEL_LOAD_11_6	108	6 11,
LEVEL_WHEEL_LOAD_12_1	109	1 12,
LEVEL_WHEEL_LOAD_12_2	110	2 12,
LEVEL_WHEEL_LOAD_12_3	111	3 12,
LEVEL_WHEEL_LOAD_12_4	112	4 12,
LEVEL_WHEEL_LOAD_12_5	113	5 12,
LEVEL_WHEEL_LOAD_12_6	114	6 12,
LEVEL_WHEEL_LOAD_13_1	115	1 13,
LEVEL_WHEEL_LOAD_13_2	116	2 13,
LEVEL_WHEEL_LOAD_13_3	117	3 13,
LEVEL_WHEEL_LOAD_13_4	118	4 13,
LEVEL_WHEEL_LOAD_13_5	119	5 13,
LEVEL_WHEEL_LOAD_13_6	120	6 13,
LEVEL_WHEEL_LOAD_14_1	121	1 14,

LEVEL_WHEEL_LOAD_14_2	122	2	14,
LEVEL_WHEEL_LOAD_14_3	123	3	14,
LEVEL_WHEEL_LOAD_14_4	124	4	14,
LEVEL_WHEEL_LOAD_14_5	125	5	14,
LEVEL_WHEEL_LOAD_14_6	126	6	14,
LEVEL_WHEEL_LOAD_15_1	127	1	15,
LEVEL_WHEEL_LOAD_15_2	128	2	15,
LEVEL_WHEEL_LOAD_15_3	129	3	15,
LEVEL_WHEEL_LOAD_15_4	130	4	15,
LEVEL_WHEEL_LOAD_15_5	131	5	15,
LEVEL_WHEEL_LOAD_15_6	132	6	15,
LEVEL_WHEEL_LOAD_16_1	133	1	16,
LEVEL_WHEEL_LOAD_16_2	134	2	16,
LEVEL_WHEEL_LOAD_16_3	135	3	16,
LEVEL_WHEEL_LOAD_16_4	136	4	16,
LEVEL_WHEEL_LOAD_16_5	137	5	16,
LEVEL_WHEEL_LOAD_16_6	138	6	16,
ENGINE_FUEL_RATE_SPN_183	139	/	,
ENGINE_THROTTLE_POS_SPN_51	140		,%
ACTUAL_ENGINE_PERCENT_TORQUE_SPN_513	141		,%
CRUISE_CONTROL_SET_SPEED_SPN_86	142	-	, /
NOMINAL_FRICT_PERCENT_TORQUE_SPN_514	143		-%
BATTERY_VOLTAGE_SPN_158	144		,
BAROMETRIC_PRESSURE_SPN_108	145		,
ENGINE_LOAD_SPN_92	146		,%
BATTERY_CURRENT_SPN_114	147		,
PARTICULATE_FILTER	148		,%
LEVEL_FREQUENCY_01	149		1
LEVEL_FREQUENCY_02	150		2
LEVEL_FREQUENCY_03	151		3
LEVEL_FREQUENCY_04	152		4

LEVEL_FREQUENCY_05	153	5
LEVEL_FREQUENCY_06	154	6
LEVEL_FREQUENCY_07	155	7
LEVEL_FREQUENCY_08	156	8
LEVEL_FREQUENCY_09	157	9
LEVEL_FREQUENCY_RPM	158	RPM
LEVEL_LLS_1_TEMPERATURE	159	1, . . (, 8)
LEVEL_LLS_2_TEMPERATURE	160	2, .
LEVEL_LLS_3_TEMPERATURE	161	3, .
LEVEL_LLS_4_TEMPERATURE	162	4, .
LEVEL_LLS_5_TEMPERATURE	163	5, .
LEVEL_LLS_6_TEMPERATURE	164	6, .
LEVEL_LLS_7_TEMPERATURE	165	7, .
LEVEL_LLS_8_TEMPERATURE	166	166, 8, .
LEVEL_LLS_1_ANGLE	167	1, . (,0...180 ,8)
LEVEL_LLS_2_ANGLE	168	2, .
LEVEL_LLS_3_ANGLE	169	3, .
LEVEL_LLS_4_ANGLE	170	4, .
LEVEL_LLS_5_ANGLE	171	5, .
LEVEL_LLS_6_ANGLE	172	6, .
LEVEL_LLS_7_ANGLE	173	7, .
LEVEL_LLS_8_ANGLE	174	8, .
LEVEL_LLS_1_PITCH	175	1, . (, -90...90 ,8)
LEVEL_LLS_2_PITCH	176	2, .
LEVEL_LLS_3_PITCH	177	3, .
LEVEL_LLS_4_PITCH	178	4, .
LEVEL_LLS_5_PITCH	179	5, .
LEVEL_LLS_6_PITCH	180	6, .
LEVEL_LLS_7_PITCH	181	7, .
LEVEL_LLS_8_PITCH	182	8, .
LEVEL_LLS_1_ROLL	183	1, . (, -90...90 ,8)

LEVEL_LLS_2_ROLL	184	2, .
LEVEL_LLS_3_ROLL	185	3, .
LEVEL_LLS_4_ROLL	186	4, .
LEVEL_LLS_5_ROLL	187	5, .
LEVEL_LLS_6_ROLL	188	6, .
LEVEL_LLS_7_ROLL	189	7, .
LEVEL_LLS_8_ROLL	190	8, .
LEVEL_LLS_1_FREQUENCY	191	1,
LEVEL_LLS_2_FREQUENCY	192	2,
LEVEL_LLS_3_FREQUENCY	193	3,
LEVEL_LLS_4_FREQUENCY	194	4,
LEVEL_LLS_5_FREQUENCY	195	5,
LEVEL_LLS_6_FREQUENCY	196	6,
LEVEL_LLS_7_FREQUENCY	197	7,
LEVEL_LLS_8_FREQUENCY	198	8,
LEVEL_A_IN_3	199	3, .
LEVEL_A_IN_4	200	4, .
LEVEL_COUPLER_LOAD	201	,
LEVEL_CARGO_WEIGHT_SPN_181	202	,
LEVEL_TRAILER_WEIGHT_SPN_180	203	(),
LEVEL_A_IN_5	204	5, .
LEVEL_A_IN_6	205	6, .
LEVEL_NAV_SPEED	206	/
LEVEL_LLS_1_BAT_VOLT	207	1,
LEVEL_LLS_2_BAT_VOLT	208	2,
LEVEL_LLS_3_BAT_VOLT	209	3,
LEVEL_LLS_4_BAT_VOLT	210	4,
LEVEL_LLS_5_BAT_VOLT	211	5,
LEVEL_LLS_6_BAT_VOLT	212	6,
LEVEL_LLS_7_BAT_VOLT	213	7,
LEVEL_LLS_8_BAT_VOLT	214	8,

LEVEL_LLS_1_RSSI	215	RSSI	1
LEVEL_LLS_1_RSSI	216	RSSI	2
LEVEL_LLS_1_RSSI	217	RSSI	3
LEVEL_LLS_1_RSSI	218	RSSI	4
LEVEL_LLS_1_RSSI	219	RSSI	5
LEVEL_LLS_1_RSSI	220	RSSI	6
LEVEL_LLS_1_RSSI	221	RSSI	7
LEVEL_LLS_1_RSSI	222	RSSI	8
TKAM_1_ANGLE	223		(TKAM) 1
TKAM_2_ANGLE	224		(TKAM) 2
TKAM_3_ANGLE	225		(TKAM) 3
TKAM_4_ANGLE	226		(TKAM) 4
TKAM_5_ANGLE	227		(TKAM) 5
TKAM_6_ANGLE	228		(TKAM) 6
TKAM_7_ANGLE	229		(TKAM) 7
TKAM_8_ANGLE	230		(TKAM) 8
TKAM_9_ANGLE	231		(TKAM) 9
TKAM_10_ANGLE	232		(TKAM) 10
TKAM_11_ANGLE	233		(TKAM) 11
TKAM_12_ANGLE	234		(TKAM) 12
TKAM_13_ANGLE	235		(TKAM) 13
TKAM_14_ANGLE	236		(TKAM) 14
TKAM_15_ANGLE	237		(TKAM) 15
TKAM_16_ANGLE	238		(TKAM) 16
TKAM_1_ROLL	239		(TKAM) 1
TKAM_2_ROLL	240		(TKAM) 2
TKAM_3_ROLL	241		(TKAM) 3
TKAM_4_ROLL	242		(TKAM) 4

TKAM_5_ROLL	243	(TKAM) 5
TKAM_6_ROLL	244	(TKAM) 6
TKAM_7_ROLL	245	(TKAM) 7
TKAM_8_ROLL	246	(TKAM) 8
TKAM_9_ROLL	247	(TKAM) 9
TKAM_10_ROLL	248	(TKAM) 10
TKAM_11_ROLL	249	(TKAM) 11
TKAM_12_ROLL	250	(TKAM) 12
TKAM_13_ROLL	251	(TKAM) 13
TKAM_14_ROLL	252	(TKAM) 14
TKAM_15_ROLL	253	(TKAM) 15
TKAM_16_ROLL	254	(TKAM) 16
TKAM_1_PITCH	255	(TKAM) 1
TKAM_2_PITCH	256	(TKAM) 2
TKAM_3_PITCH	257	(TKAM) 3
TKAM_4_PITCH	258	(TKAM) 4
TKAM_5_PITCH	259	(TKAM) 5
TKAM_6_PITCH	260	(TKAM) 6
TKAM_7_PITCH	261	(TKAM) 7
TKAM_8_PITCH	262	(TKAM) 8
TKAM_9_PITCH	263	(TKAM) 9
TKAM_10_PITCH	264	(TKAM) 10
TKAM_11_PITCH	265	(TKAM) 11
TKAM_12_PITCH	266	(TKAM) 12
TKAM_13_PITCH	267	(TKAM) 13
TKAM_14_PITCH	268	(TKAM) 14
TKAM_15_PITCH	269	(TKAM) 15

TKAM_16_PITCH	270	(TKAM) 16
BRAKE_AIR_PRESSURE_1_SPN_1087	271	,
BRAKE_AIR_PRESSURE_2_SPN_1088	272	,
GROSS_VEHICLE_WEIGHT_SPN_1760	273	,

(LongParamId)

()		
LONG_INVALID_PARAM	0	.
TOTAL_FUEL_USED_SPN_250	1	,
SERVICE_DISTANCE_SPN_914	2	,
ENGINE_HOURS_SPN_247	3	,
TOTAL_VEHICLE_DISTANCE_SPN_917	4	,
TRIP_DISTANCE_SPN_918	5	,
CALCULATED_FUEL_CONSUMPTION	6	,

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