

BR900GPS SMS command

Main SMS command

2345n1 - set number to EEPROM at position 1 (set number for alarm SMS and/or auto-SMS),

2345c1 - clear number from EEPROM at position 1

2345ig or 2345ix - get location; 2345if - get full info; 2345iL - get data-logger data

SMS command	Answer SMS	Function
Auto-SMS parameters		
2345Y1 2345Y or 2345Y0 2345Y?	Auto-SMS enable Auto-SMS disable	Auto-SMS enable (default) Auto-SMS disable Get Auto-SMS mode status
2345A0 ... 2345A9	(parameters)	Set speed level for auto-SMS 0: 0km/h, 1: 10 km/h, 2: 20 km/h, 3: 30km/h, (default , SMS if > 30km/h) 4: 40 km/h, ... 9: 90km/h
2345AS0 ... 2345AS9	(parameters)	Set auto-SMS Speed Filter 0: speed filter = 1 min 1: speed filter = 2 min, default 2: speed filter = 3 min 3: speed filter = 4 min ...
2345AP0000 ... 2345AP9999	(parameters)	Set Auto-SMS period if speed = 0 0000 – disable auto SMS 0030 - period = 30 min 0060 - period = 1 hours 0480 - period = 8 hours default 1440 - period = 24 hours
2345AA _n	auto-SMS	Set auto-SMS type n=0: see 2345ig n=1: see 2345ix n=2: see 2345iL n=3: see 2345if
Phone Numbers for alarm SMS		
2345N1 ... 2345N7	OK	Set number for alarm (1..6) and auto-SMS (1,7) (see table NUMBERS)
2345N1? or 2345N?	N1:+37122842913 ...	Get number or Get all numbers
2345C1 ... 2345C7 2345CA	OK	Clear number at position 1..7 Clear all numbers from EEPROM
Get information		
2345i	(Information) Analog=00.0% Battery=11.9V [T: -10] I1=0 I2=0 I3=0 I4=0 O1 OFF O2 OFF SQ:26.0 TM: 15 [ON] [16/07/31,12:25:28]	Get information Analog Battery voltage in V [temperature, if SMT sensor connected] inputs outputs GSM signal quality output timer and timer status [GSM time YY/MM/DD,HH:MM:SS]

2345ig	UTC:270716,113007 5654.82050,N 02411.09700,E Speed: 47km/h	Get location and speed UTC date/time Latitude Longitude Speed
2345ix	Battery: 12.0V UTC: 270716,113007 5654.82050,N 02411.09700,E Speed: 47km/h [16/07/27,14:30:07]	Get battery voltage, location, speed Battery voltage UTC date,time Latitude Longitude Speed [GSM date,time]
2345il	861715030680210,270716,113007,12.1,5654.82050,N,02411.09700,E,49,00.0,[-15,]24,1100	Get IMEI or NAME + datalogger info IMEI,UTC date,time, Bat.voltage,Latitude,Longitude, Speed,Analog,[Temperature,] GSM Signal Quality, dig.inputs 4,3,2,1
2345if	Object: 123456789012345 UTC:270716,113007 5654.82050,N 02411.09700,E Speed: 47km/h Analog: 00.0% Battery: 11.9V [T: 021C] Digital: 1100 SQ: 22	Get full data Object name = Dir Name or IMEI UTC date/time Latitude Longitude Speed Analog Battery voltage in V [Temperature] Digital Inputs 4,3,2,1 GSM Signal Quality
2345ia	Auto-SMS	Get auto-SMS auto-SMS type 0: GPS data 1: GPS data + Battery Voltage. 2: Data Logger row 3: Full data Auto-SMS type selected with SMS command 2345AA0..2345AA3
2345ip	(parameters) TM:15min A: 0,0 AM:0 B:100 150 [T: -20 30] AF:1 TF: 5 O1.ctrl: 0 DF: 2 DLP:1 SF:3 ASP:1 Offs:0 Ak:963 SM:2	Get parameters output timer default setting Analog level MIN MAX, Analog mode Battery level MIN MAX [Temperature level MIN MAX] Analog and Temperature timeout filter Out.1 internal control, digital signal filter DLP: DataLogger Period, SF: Speed Filter, ASP: Auto SMS Period, Offset for 4-20mA, AN1 correction (see 2345HK,0963) auto-SMS type
2345im	IMEI:123456789012345	Get IMEI
2345iv	v.900GPS.250716	Get firmware version number
Alarm SMS text setting		
2345X01,Input 01	1-Event Input 1 0-1	Text up to 32 char (see table "Text SMS Message")
2345X01	1-	Clear text
2345X01?	1-Event Input 1 0-1	Get text

Enable alarm SMS / disable alarm SMS (for digital inputs)		
2345E1 2345E or 2345E0	PROTECTED, confirmation enable PROTECTED, confirmation disable	Enable alarm SMS for digital, analog, temperature; Confirmation SMS after SMS command S,R,B enable/disable default: protected, confirmation enable
2345B	UNPROTECTED	Disable alarm SMS for digital, analog, temperature
Set/Reset Outputs; Timer Outputs; only for Output 1		
2345S1, 2345S2	(Information)	Set Output 1 or Output.2
2345R1, 2345R2	(Information)	Reset Output 1 or Output.2
2345V,030	(iparameters)	set duration for timeout = 30 min Maximum 240 min. (default 15 min)
2345T,060 2345T	(information)	set output 1 for timeout = 60 min default 15 min, maximum 240 min set output for timeout = default Accuracy 10%
2345jO,S	(information)	Pulse for Output 1 or Output 2 O: 1 or 2; S – pulse duration 0 ... 9 S=0: 80ms S=1: 1sec ... S=9: 9sec
Analog / Temperature		
2345L1,0300 2345L2,0100 2345L3-006	(parameters)	Set min level for analog, default 0000 Set min level for battery, default 0047 100 - level 10.0 (% or V) Set min level for temperature -6deg.C default -10
2345H1,0500 2345H2,0150 2345H3+030	A.MIN:1234 A.MAX:1234, dB	Set max level for analog, default 0080 Set max level for battery, default 0150 0150 - level 15.0 (% or V) Set max level for temperature +30degC, default: +030
2345HK,0963	(parameters)	AN1 correction coefficient 0963 = 0,963 default 0,963
2345L or 2345H	(parameters)	Get parameters
2345HMn 2345HM0 2345HM1 2345HM2 2345HM4 2345HM5	(parameters)	Set analog mode for Analog 1, n – mode 0: 0-5V 0-5V = 0-100% 1: 0-10V = 0-100% (default) 2: 0-10V 4: 4-20mA = 0-100% 5: 0-5V 0-5V = 0-100%
2345HO-000 2345HO+000	(parameters)	Set offset for 4-10mA; - or + default 0

GPRS parameters		
2345WA,apn 2345WA,- 2345WA?	APN: internet	Set APN disable GPRS (default) Get APN
2345WU,userID 2345WU,- 2345WU?	User ID: userID	Set User ID disable User ID (default) Get User ID
2345WP,password 2345WP,- 2345WP?	Passw: password	Set password disable password (default) Get password
2345Wi,0.0.0.0 2345Wi?	IP address	Set IP; default 0.0.0.0 Get IP
2345W?	GPRS: APN: APN User ID: UserID Psw: password IP: 0.0.0.0	Get GPRS APN setting
FTP parameters		
2345MH,HostName 2345MH? 2345MH, or 2345MH,-	Host Name FTP: HostName	Set Host Name FTP Get Host Name FTP Clear Host Name FTP
2345MU,UserID 2345MU? 2345MU, or 2345MU,-	User ID FTP: UserID	Set User ID FTP Get User ID FTP Clear User ID FTP
2345MP,password 2345MP? 2345MP, or 2345MP,-	Passw.FTP: password	Set Password FTP Get Password FTP Disable FTP
2345M?	FTP: Host Name: HostName User ID: UserID Psw: password	Get FTP setting
2345MD,DirName 2345MD?	Dir Name: IMEI	Set Dir Name (default 'IMEI') Get Dir Name Note: if you set Dir Name = 'IMEI', Dir Name = GSM modem IMEI
FTP period parameters		
2345D1 2345D2 2345D3 2345D4 2345D5 2345D6	(parameters)	Set DataLogger Period (DLP) DLP=1, 1 row in file (FTP) - default DLP=2, 2 row in file (FTP) DLP=3, 4 row in file (FTP) DLP=4, 8 row in file (FTP) DLP=5, 16 row in file (FTP) DLP=6, 32 row in file (FTP)
Internal control		
2345K,nm	(parameters)	Internal control from digital inputs 1,2,3,4; Output 1 ON on default time (see SMS command T,V) (see table "Internal Control")

Filters Analog / Temperature / Digital		
2345FA00 ... 2345FA99	(parameters)	Set filter for analog 01 – 1min, 02 – 2min, ...99 – 99min
2345FT00 ... 2345FT99	(parameters)	Set filter for temperature 01 – 1min, 02 – 2min, ...99 – 99min
2345F0 ... 2345F9	(parameters)	Set filter for digital inputs 1 – 0,5s, 2 – 1s, 3 – 1,5s, ...9 – 4,5s 0 - filter 50ms default: 4 (2s)
Other		
2345OR	OK	Full restart
2345ZR	OK	SIM28ML restart
2345Z0 or 2345Z 2345Z1	GSM Date-Time OFF GSM Date-Time ON	Disable date-time from GSM Enable date-time from GSM (default)
2345ZT,19/05/03,19:04:00+00	(Information)	Set GSM date/time; if GSM time enable YY/MM/DD,HH,MM.SS+00
2345Z1 2345Z0	GSM Date-Time ON GSM Date-Time OFF	GSM time enable GSM time disable
2345ZG0 2345ZG1	OK	GSM time in datalogger UTC time in datalogger
Password change		
2345P2013	Psw:2013	Change password; use only 0,1,2,3,4,5,6,7,8,9 default password 2345 if you forgot password, use jumper for restore default password 2345

All SMS command CASE INSENSITIVE

Event SMS

Digital	Analog	Battery	
Text SMS	Text SMS	Text SMS	Text SMS ("Text SMS message")
UTC: 310716,092536 5654.8295,N 02411.0719,E Speed: 0km/h [16/07/31,12:25:28]	Analog: 00.0% UTC: 310716,092536 5654.8295,N 02411.0719,E Speed: 0km/h [16/07/31,12:25:28]	Battery: 10.0V UTC: 310716,092536 5654.8295,N 02411.0719,E Speed: 0km/h [16/07/31,12:25:28]	Analog signal UTC time DDMMYY,HHMMSS Latitude Longitude Speed [GSM time YY/MM/DD,HH:MM:SS]

Text SMS message

SMS command	Text (length 32 char)	Default text
2345X01,	For digital Input 1 event 0-1	Input event 1 0-1
2345X02,	For digital Input 2 event 0-1	Input event 2 0-1
2345X03,	For digital Input 3 event 0-1	Input event 3 0-1
2345X04,	For digital Input 4 event 0-1	Input event 4 0-1
2345X05,	For digital Input 1 event 1-0	Input event 1 1-0
2345X06,	For digital Input 2 event 1-0	Input event 2 1-0
2345X07,	For digital Input 3 event 1-0	Input event 3 1-0
2345X08,	For digital Input 4 event 1-0	Input event 4 1-0
2345X09,	For analog input high	Analog high
2345X10,	For analog input low	Analog low
2345X11,	For analog input normal	Analog normal
2345X12,	For battery high	Battery high
2345X13,	For battery low	Battery low
2345X14,	For battery normal	Battery normal
2345X15,	For temperature high (if sensor connected)	Temperature high
2345X16,	For temperature low (if sensor connected)	Temperature low
2345X17,	For temperature normal (if sensor connected)	Temperature normal
2345X18	Analog signal name (maximum 12 char.)	Analog

Disable SMS if first character = blank

Numbers

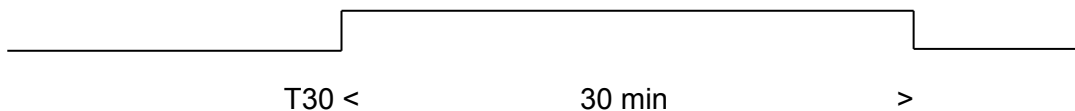
Example for numbers in EEPROM (with SMS command 2345N and 2345C)

Nr in EEPROM	numbers	
1	+37122842913	For auto SMS and alarm SMS
2	+37122842914	For alarm SMS
3		For alarm SMS
4		For alarm SMS
5		For alarm SMS
6		For alarm SMS
7		For auto SMS

Number consist + and country code before phone number

Timer Output

Timer output for Output 1. Output 1 ON for time duration (SMS command 2345T, 2345V).



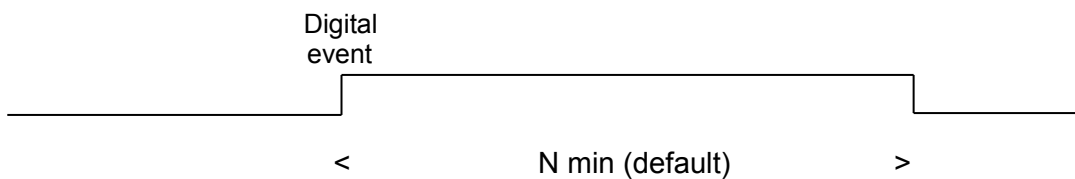
Internal Control

Internal control for set Output 1 ON on duration time if event digital input.1,2,3,4

	Digital Input event 1-0				Internal control with Out.1 for default time
	4	3	2	1	
SMS command 2345K,nm					
2345K,00	0	0	0	0	disable
2345K,01	0	0	0	1	Out.1 ON if event digital input 1 1-0
2345K,02	0	0	1	0	Out.1 ON if event digital input 2 1-0
2345K,03	0	0	1	1	Out.1 ON if event digital input 1 or 2 1-0
2345K,04	0	1	0	0	Out.1 ON if event digital input 3 1-0
...					

	Digital Input event 1-0				Internal control with Out.1 for default time
	4	3	2	1	
SMS command 2345K,nm					
2345K,00	0	0	0	0	disable
2345K,10	0	0	0	1	Out.1 ON if event digital input 1 0-1
2345K,20	0	0	1	0	Out.1 ON if event digital input 2 0-1
2345K,30	0	0	1	1	Out.1 ON if event digital input 1 or 2 0-1
2345K,40	0	1	0	0	Out.1 ON if event digital input 3 0-1
...					

Out.1 OFF after default timeout (SMS command 2345V, 2345T)



For example – if motion detector active – Out.1ON for N min (N = 001..240 min). To Out.1 you can connect Siren.

GPS MONITORING with SMS

Enable with SMS command 2345Y1

Speed

2345A1 ... 2345A9 set Speed Level 10 ... 90 km/h

2345AS0 ... 2345AS9 SMS speed filter (SMS frequency);

2345AP0120 - Auto-SMS period (if speed = 0);

SMS type can be selected (see SNS command 2345AA)

example 0: (2345AA0)

UTC: 211018,112428

5655.35N 02409.4265E

Speed: 065km/h

example 1: (2345AA1)

Battery: 12.0V

UTC: 211018,112428

5655.35N 02409.4265E

Speed: 065km/h

example 2: (2345AA2)

123456789012345,291019,115949,14.3,5655.4590N,02409.7949E,049,84.3,30,1100
where

123456789012345 – IMEI

291019,115949 – UTC date-time

14.3 – battery voltage

5655.4590N,02409.7949E – location

049 – speed

84.3 – analog in %

30 – GSM signal level

1100 – digital inputs 4,3,2,1

example 3: (2345AA3)

Object: 123456789012345

UTC:270716,113007

5654.82050,N

02411.09700,E

Speed: 47km/h

Analog: 00.0%

Battery: 11.9V

[T: 021C]

Digital: 1100

SQ: 22

20/01/12,17:45:14

GPS MONITORING with FTP

Enable with SMS command 2345WA,internet (as example)

Disable with SMS command 2345WA,

Set Directory under your FTP account. Directory /[IMEI from GSM modem]
for example /**863591021624279**

File Name example

160731121611.txt (YYMMDDHHMMSS.txt)

Files format:

270716,113007,12.1,5654.82050,N,02411.09700,E,109,00.0,24,1100

if Smartec SMT172 (SMT160-30) temperature sensor connected

270716,113007,12.1,5654.82050,N,02411.09700,E,109,00.0,015,24,1100

where

270716,113007, - UTC time DDMMYY,HHMMSS

12.1, - Battery voltage in V

5654.82050,N, - Latitude

02411.09700,E, - Longitude

109, - Speed in km/h

00.0, or 0000 - Analog Input in % or in V or other unit

015 - Temperature in deg.C (if Smartec SMT172 or SMT160-30 temperature sensor connected)

24 - GSM Signal Quality

1100 - digital inputs Inp. 4,3,2,1

File example (without temperature):

211018,115949,14.3,5655.4590N,02409.7949E,049,84.3,24,1100

211018,115949,14.3,5655.4590N,02409.7949E,049,84.3,23,1100

211018,120038,12.7,5655.2942N,02410.2364E,000,74.2,24,1100

211018,120059,14.3,5655.2356N,02410.2865E,043,84.2,24,1100

File example (with temperature):

211018,115949,14.3,5655.4590N,02409.7949E,049,84.3,017,24,1100

211018,115949,14.3,5655.4590N,02409.7949E,049,84.3,018,23,1100

211018,120038,12.7,5655.2942N,02410.2364E,000,74.2,018,24,1100

211018,120059,14.3,5655.2356N,02410.2865E,043,84.2,018,24,1100