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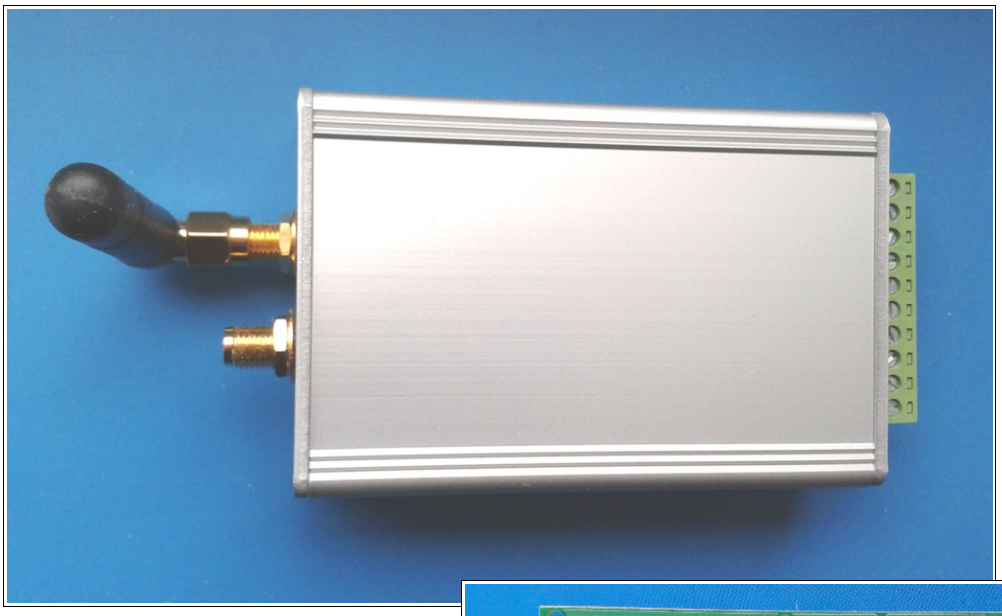
GSM/GPRS GPS Tracker

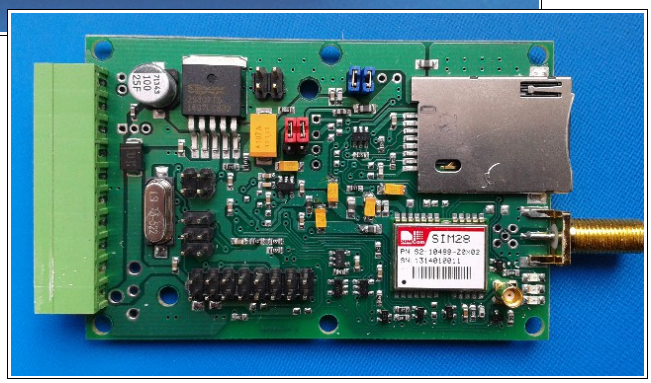
for real-time GPS data tracking

BR900-GPS

Preliminary data

22 oct. 2018





GSM module BR900-GPS

Features:

- Quad band GSM module SIM900 or compatible
- GPS receiver SIM28
- 1 Solid State Relay outputs (28V/1A max)
- optionally 2 Open-Drain Mosfet Outputs instead of 1 Solid-State Relay output
- 4 digital inputs
- 1 analogue input
- 1 temperature input (optionally)
- Power supply monitoring
- SMS/FTP tracking
- Remote programming using SMS
- Pluggable screw terminal block for external signal and power supply connections
- Push-Push SIM holder
- External stabilised +5VDC...+12VDC (+14.5VDC max) power supply
- Board dimensions: 77.5x50.5mm
- Enclosure: FISCHER ELEKTRONIK AKG 55 24 80 ME (optional)
- Enclosure dimensions: 80x55x24mm

Applications:

- GPS tracking

BR900 Versions

BR900-ST - Standard version
BR900-SMT - Temperature monitoring version
BR900-PT100 - Temperature monitoring version for Pt100 sensors
BR900-RF - RF-control version for wireless remote control switch AC power plugs
BR900-GATE - Gate opener version for Gate control
BR900-GPS - GPS version for SMS/FTP tracking
BR928-DL - Data logger version with extended inputs and outputs and with GPRS data transfer to WEB server

Technical Specification

BR900 series Hardware Specification

	BR900-ST	BR900-SMT	BR900-RF	BR900-GATE	BR900-GPS	BR928-DL
GSM band support	800/1900Mhz or 800/850/1800/1900Mhz					
Internal GSM module	Dual or Quad band GSM module SIM900 or compatible					
RF Transmit Power	Class 4 (2W) 850/900Mhz, Class 1 (1W) 1800/1900Mhz					
Data transmission	SMS	SMS	SMS	SMS	SMS/FTP/GPRS	SMS/FTP/GPRS
SIM card reader	Push-push					Simple
SIM card type	Phase 1 and phase 2+; SIM 3V / 1.8V					
Antenna Connection	50Ω SMA (f) Connector					
Digital inputs						
Digital inputs type	MOSFET transistor input (20V max)					Darlington transistor input
- Digital inputs	4	2	1	4	4	6
- Events digital inputs	4	2	1	4	4	12
- Digital inputs event	0-1 or 1-0	0-1 or 1-0		0-1 or 1-0	0-1 and 1-0	0-1 and 1-0
- Digital signal filter	Yes					
Temperature sensor inputs						
Temperature sensor	-	SMT172	-	-		SMT172
Temperature inputs	-	2	-	-	1 optionally	2
Temperature input events	-	min/norm/max	-	-		min/norm/max
Temperature range	-	-45 to +99°C	-	-		-45 to +99°C
Accuracy	-	1°C	-	-		1°C
- Temperature filter		Yes				Yes
Analogue inputs						
Analogue inputs	1	1	-	-	1	3
Analogue input range	0...10V	0...10V	-	-	0...10V	0-10V
Analogue input mode	-	-	-	-	-	0-5V/0-10V 0-20mA (optional)
- Analogue input events	min/norm/max	min/norm/max	-	-	min/norm/max	min/norm/max
- ADC resolution	10-bit	10-bit	-	-	10-bit	10-bit
Outputs						
- Relay Output	-	-	-	-	-	1 (125Vac/24Vdc/0.5A
- Solid State Relay outputs	1 (30V/1A max)	1 (30V/1A max)	-	1 (30V/1A max)	1 (30V/1A max)	-
- MOSFET Open Drain outputs	2 optionally (30V) instead of Solid-State Relay output	2 optionally (30V) instead of Solid-State Relay output	-	2 optionally (30V) instead of Solid-State Relay output	2 optionally (30V) instead of Solid-State Relay output	2 (20V)
- Wireless Outputs (AC remote switch control)	-	-	Up to 5			-
- Output control mode	On-Off; Pulse					
On-board monitoring						
Power supply voltage monitoring	Yes	Yes	Yes	Yes	Yes	Yes
Power supply voltage monitoring range	15.5V max	15.5V max	15.5V max	15.5V max	15.5V max	17.75V max
Temperature monitoring	-	-	Yes	-	-	-
Temperature range	-	-	-40 to +85°C	-	-	-

GSM module BR900-GPS

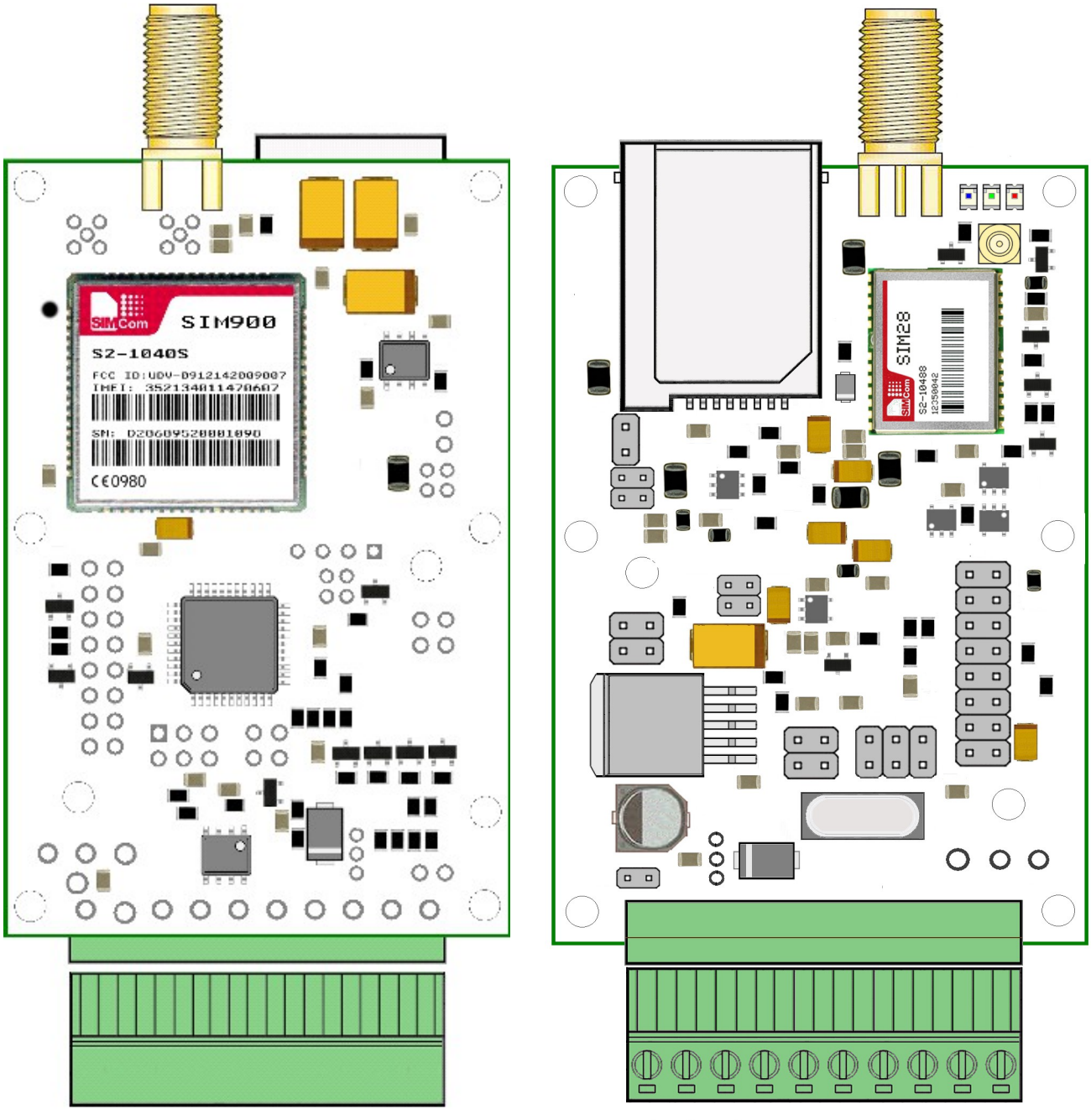
	BR900-ST	BR900-SMT	BR900-RF	BR900-GATE	BR900-GPS	BR928-DL
Wiring						
Wiring Connections	10-way Pluggable Screw Terminal block	10-way Pluggable Screw Terminal block	5.5/2.1 power connector; 2 way pluggable screw terminal	10-way Pluggable Screw Terminal block	10-way Pluggable Screw Terminal block	2x10-way Double row pluggable Screw Terminal block
Power Supply						
Required Power External Supply	+6..12Vdc (14.5Vdc max) stabilised	+5Vdc stabilised	+5Vdc stabilised	+6..12Vdc (14.5Vdc max) stabilised	+6..12Vdc (14.5Vdc max) stabilised	+12Vdc stabilised (+11Vdc min +14.5Vdc max)
Power requirement	50mA typ, 250mA(rms) max, 2A peak typ. (3A max) peak during transmission					
Minimum current recommended	1.2A	1A	1A	1.2A	1.5A	1.5A
Voltage regulator	Internal voltage regulator					
Power protection	Reverse-polarity and over-voltage protection					
Environmental Conditions						
Operating temperature range	-40…+85°C					
Dimensions						
Board dimensions	77.5x50.5mm					
Enclosure	optional	optional	Yes	optional	optional	optional
Enclosure	aluminium	aluminium	aluminium	aluminium	aluminium	aluminium
Enclosure dimensions	80x55x24mm	80x55x24mm	80x55x24	80x55x24mm	80x55x24mm	80x55x32

BR900 series Firmware Specification

	BR900-ST	BR900-SMT	BR900-RF	BR900-GATE	BR900-GPS	BR928-DL
Quantity of controlled outputs	1 (2)	1 (2)	5	1 (2)	1 (2)	3
Quantity of digital event inputs	4	2	1	4	4	6
Quantity of analogue event inputs	1 (+power supply voltage)	1 (+power supply voltage)	-	power supply voltage	1 (+power supply voltage)	3 (+power supply voltage)
Quantity of readable analogue data	2	2	-	1	2	4
Quantity of temperature event inputs	0	2	1	-		2
Quantity of readable temperature data	0	2	1	-		2
Events cell phone numbers	4	4	4		6	7

Hardware

The BR900-GPS module consists of the microprocessor, voltage regulator, inputs driver, MOSFET output transistors, built-in GSM module, GPS module, push-push SIM-card holder, GSM antenna connector, GPS antenna connector, pluggable 10-ways screw terminal for external power supply and input and output signal connection.



Power Supply

The BR900-GPS operates from a stabilized power source. It draws less then 50mA standby, less then 300mA rms and 2A peak typ. (3A peak max.). +12VDC/1.2A min switching stabilized power supply is recommended. Power supply input has reverse polarity and over-voltage protection. The BR900-GPS can operates also from +5VDC to up to +14.5VDC stabilized power supply.

SIM Card

Small SIM-card with 3V/1.8V technology

Preparation of SIM card

1. Delete any SMS messages from SIM.
2. **Disable PIN code** request so it will not prompt for a PIN code on turning on.
3. First SMS to module ***- 2345N1*** from your cell phone (store your number)

Note:
- *The BR900 can only be used with small SIM-cards with 3V/1.8V.technology.*
- *For SIM card preparation you can use cell phone or external GSM modem.*
- *SIM card change if power turn off.*

LED indicators

- Module work process indication - RED LED (LED1)
- GSM module SIM900 status indication - GREEN LED (LED2)
- GPS module SIM28 – BLUE LED (LED3)

Module LED indication (Red LED)

LED status	Modem status
Permanently off	Device off
Short blinking after power on and periodic blinking	SIM card read process
Short periodic blinking	Module in work
Permanently on	Module work with modem

GSM Module SIM900 LED GSM status indication (Green LED)

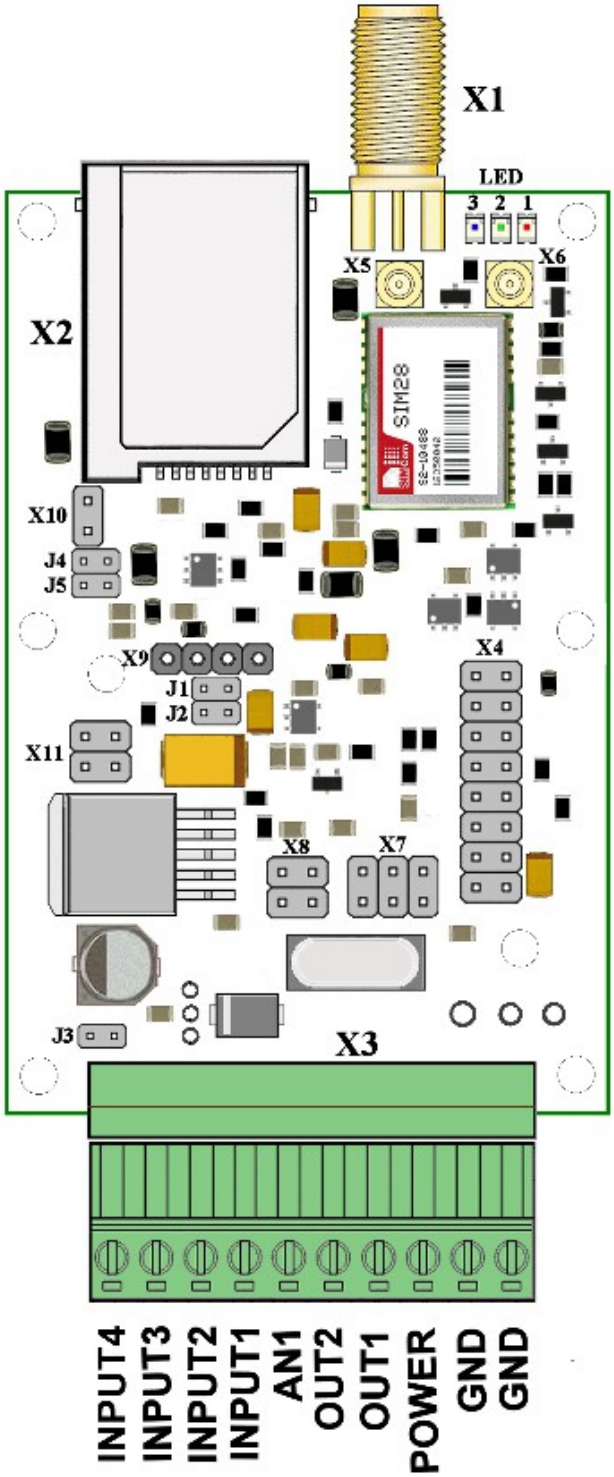
LED status	Modem status
Off	GSM module SIM900 is not running
64ms On / 800ms Off	GSM module does not find the network
64ms On / 3000ms Off	GSM module find the network
64ms On / 300ms Off	GPRS communication

Connectors and Jumpers

The BR900-GPSconsist 10-way pluggable screw terminal for power supply, inputs and outputs connection, push-push SIM connector for SIM card, SMA (female) connector for GSM antenna connection and optional MMCX (female) connector for MMCX(male)-SMA(female) cable for GSM antenna connection. Optionally BR900 have also 2x8 pin header (X4) and 2x2 pin header (X11) for additional extended adapter board connection.

X1 – GSM antenna SMA (female) connector
X2 – Push-push SIM connector
X3 – Pluggable 10-ways terminal block for power supply and external inputs/outputs signal connection
X4, X11 – Pin headers for optional extension adapter board connection
X5 – MMCX (female) connector for MMCX to SMA bulkhead GSM antenna cable for any other enclosure
X6 – optional MMCX (female) connector for GPS antenna
X7 – ISP interface connector for Firmware programming
X8 – control point
J1/J2 – Jumpers for firmware mode setting
J3 – Jumper for connection INPUT4 to GND.
J4/J5 – Jumpers for connection microcontroller to GPS module

Power Supply:	see “Power supply”
Digital Inputs:	NTR4003N MOSFET transistor 0-20V max)
Analogue Input:	0...10V max with resistive divider and diode protection
Digital outputs:	Solid State Relay outputs, 30V max / 1A max



Jumpers

Jumper J1 - Change GSM band
without Jumper J1 - All Band GSM850/900/1800/1900
with jumper J1 - GSM 850/1900 (850+PCS)

Jumper J2 - Set passwork to default 2345

GSM antenna connector

GSM antenna must be connected to SMA female connector X1. Use only the 50Om antenna of the necessary frequency range. Base version completed with direct mount GSM antenna.
Optional X5 MMCX female connector used for connection MMCX(m) to SMA(f) cable for mounting to any other enclosure.

***Note**: It is very important that the antenna is installed on a location where the GSM-network coverage is sufficient. Please also check carefully that antennas are not installed nearby technical devices, cables etc. which could influence the GSM-radiation.*

Inputs and Outputs connection

Digital inputs, analogue input, outputs and power supply must be connected with pluggable screw terminals blocks X3.

Digital inputs - 4
Analogue inputs – 1
Solid-State Relay output - 1 (optionally: Open-Drain MOSFET outputs – 2)

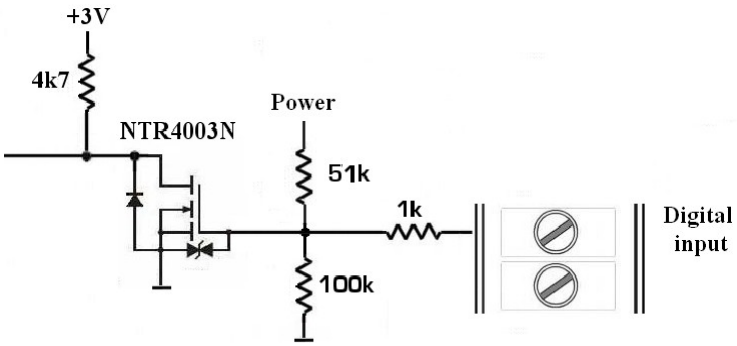
See "Inputs and Outputs"

Inputs and Outputs

Inputs

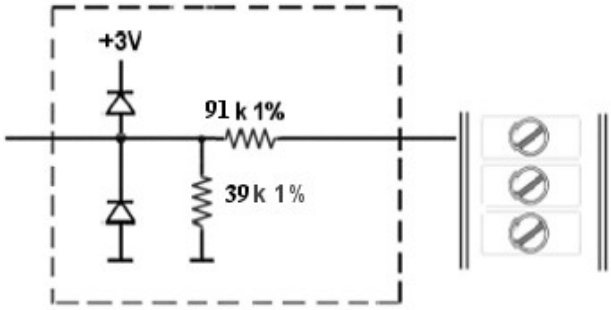
Digital Transistor Inputs (exclude BR928)

Driver type: MOSFET transistor NTR4003
Connector: Pluggable screw terminal block
Inversion: Yes
Max input voltage: 20V
Free Input: logic "0"
Logic "0": 0V…+1V
Logic "1": +2V…+20V
Pull-up resistor: 51k – only for INPUT3 and INPUT4



Analogue Inputs 1

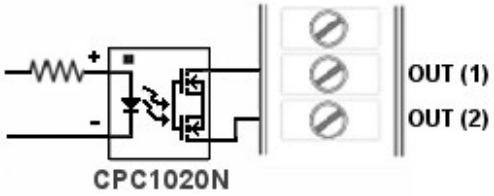
Connector: Pluggable screw terminal block (for analog input1)
Input type: CMOS
Input Voltage: 0 to +10V: – ANALOG1
ADC resolution: 10-bit



Outputs

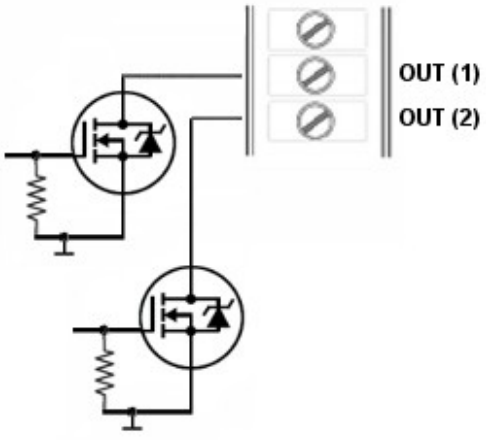
Solid State Relay Outputs

Connector: Pluggable Screw terminal block
Solid State Relay: single-pole, normally open (1-Form-A) Solid State Relay CPC1020N
Max. Voltage: 30V
Max. Current: 1A
On-resistance: 0.25om

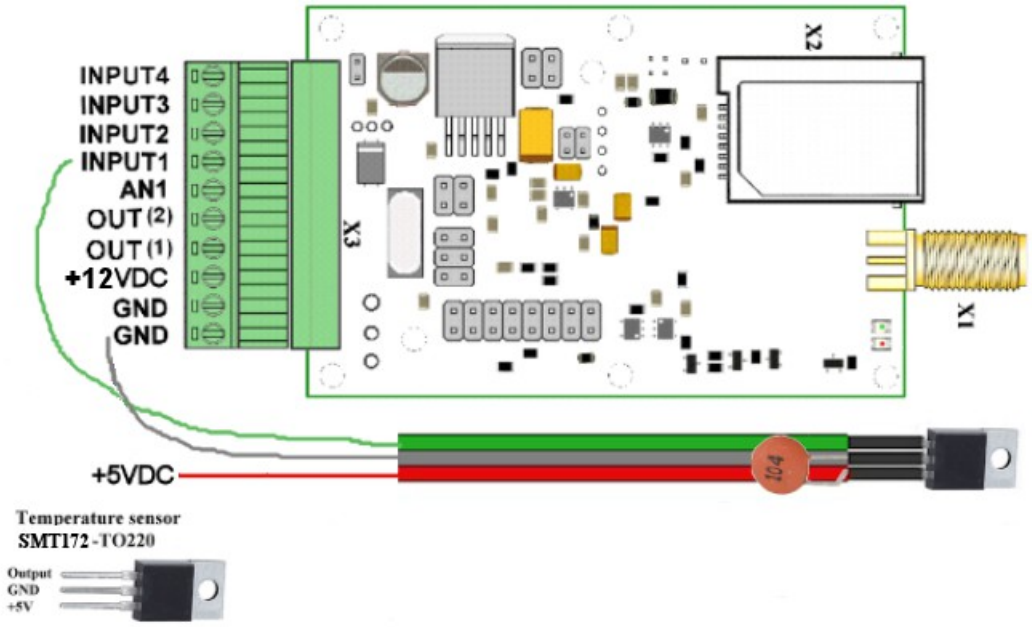


MOSFET Open Drain Outputs (optional)

Connector: Pluggable Screw terminal block
MOSFET transistor: IRL6372PBF
Max. Voltage: 30V



Temperature sensors Smartec SMT172 / SMT160-30 connections (OPTIONALLY)



Note 1: for cable need connect capacitor 100nF between GND and +5V sensor side. Also for long cable recommended used shielded cable.

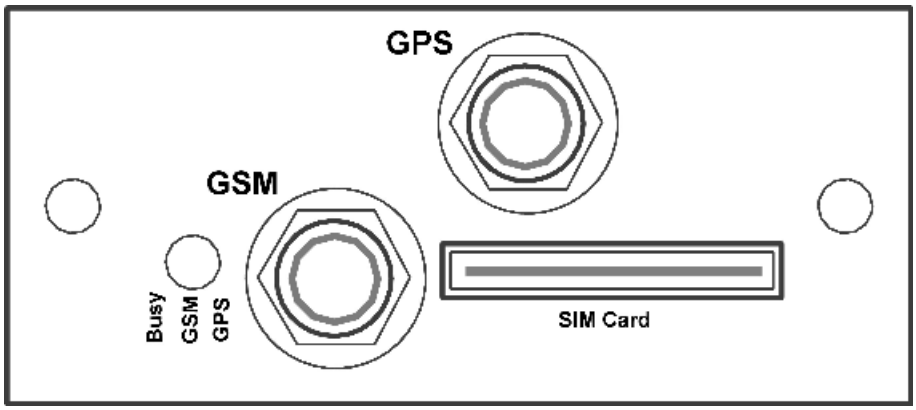
Note 2: if for as power supply used +5VDC temperature sensor can powered from this +5VDC power.

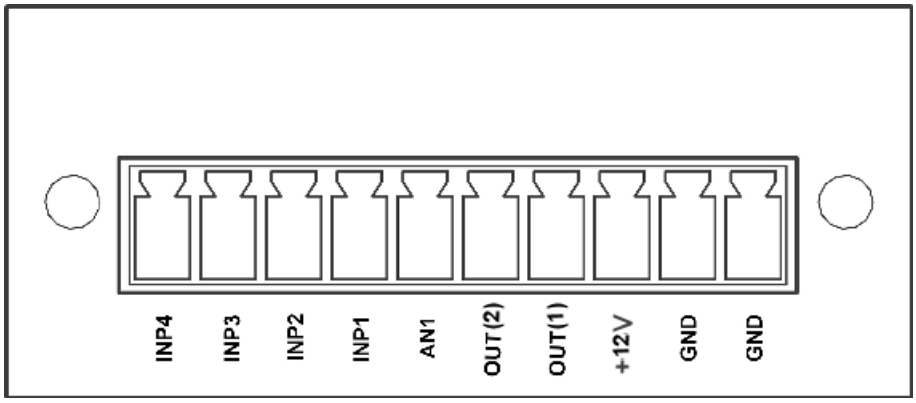
Note 3: this feature is optionally.

Enclosure

For all BR900 version used Fischer Elektronik aluminium enclosure AKG 55 24 80 ME.

- BR900 Board dimensions: 50.5x77.5mm
- Enclosure AKG 55 24 80 ME dimension 54 x 80 x 24 mm





Programming

Main SMS command

2345n1 - set number at position 1 (send from cell phone for alarm SMS),
2345c1 - clear number at position 1 (send from cell phone from any SMS)
2345gi - get location
2345i - get info
2345y - auto location SMS disable, 2345y1 - auto location SMS enable
2345An - change speed level n=0, 1, … 9 = 0, 10, … 90 km/h

2345Y? - Auto location SMS enable - get Auto-location SMS status
-Auto location SMS disable

SMS command	Answer SMS	Function
Setting parameters		
2345Y1 2345Y or 2345Y0	OK	Auto-location SMS enable SMS if speed > n*10km/h where n - speed level / 10 (SMS command 2345An, n = 1,2 … 9) Auto-location SMS disable (**default**) Auto-SMS disable
2345A0 … 2345A9 2345AS0 … 2345AS9 2345AP0 … 2345AP9	OK	Set speed level 0 … 9 0: 0km/h, 1: 10 km/h, 2: 20 km/h, 3: 30km/h, (**default**) 4: 40 km/h, ... 9: 90km/h, Set SMS Speed Filter 0 … .9 0: speed filter = 0,5 min 1: speed filter = 1 min, **default** 2: speed filter = 1,5 min 3: speed filter = 2 min … Set Auto-SMS period (auto SMS if speed > n*10km/h where n - speed level / 10 (SMS command 2345An, n = 1,2 … 9) 0 – disable auto SMS, **default** 1 - period = 1 hours 2 - period = 2 hours … 9 - period = 9 hours
Phone Numbers for alarm SMS		
2345n1 … 2345N7	OK	Set number for alarm (1..6) and auto- SMS (1,7)
2345n1? or 2345N?	N1:+37122842913 ...	Get number or Get all numbers
2345c1 … 2345C7	OK	Clear number at position 1..7
Get information		
2345ig	UTC:270716,113007 5654.82050,N	Get location info Latitude

	02411.09700,E Speed: 47km/h	Longitude Speed
2345ix	Battery: 12.0V UTC: 270716,113007 5654.82050,N 02411.09700,E Speed: 47km/h 16/07/27,14:30:07	Battery voltage UTC date,time Latitude Longitude Speed GSM date,time
2345il	270716,113007,12.1,5654.82050,N, 02411.09700,E,49,00.0,[-15,] 24	UTC time,Battery voltage,Latitude, Longitude,Speed,Analog,[Temperature,] GSM Signal Quality
2345i	(Information) Analog=00.0% Battery=11.9V I1=0 I2=0 I3=0 I4=0 O1 OFF O2 OFF SQ:26.0 TM: 15 [ON] [T: -10]	Get info Analog in % Battery voltage in V inputs outputs GSM signal quality output timer and timer status [temperature, if SMT sensor connected]
2345ip	(parameters) TM: 15min A:0,900 AM:1 B:100 150 V/10 [T level: -20 30] AF:1 TF:5 O1 ctrl: 00 DF:2 DLP:1 DLF:0 DLF:0 SL:2 SF:1 ASP:0 16/07/27,13:42:55 ver.900GP.25072016	 output timer default setting Analog level MIN MAX Battery level MIN MAX [Temperature level MIN MAX] Analog and Temperature timeout filter Out.1 internal control, digital signal filter DLP: DataLogger Period, **default 1** DLF: DataLogger Filter, **default 3** SL: Speeg level SF: Speed Filter, **default 1** **ASP:** Auto SMS Period, **default 0** Date-time (GSM) Firmware version number
Enable alarm SMS / disable alarm SMS (for digital inputs)		
2345E1 2345E or 2345E0	PROTECTED, confirmation enable PROTECTED, confirmation disable	Enable alarm SMS for digital inputs; Confirmation SMS after SMS command S,R,E,B enable/disable **default:** protected, confirmation enable
2345B	UNPROTECTED	Disable alarm SMS for digital inputs
2345qa 2345q	OK	Alarm mode enable* Alarm mode disable (**default**)
2345F1 … 2345F9 2345F0	(parameters)	Set filter for digital inputs 1 – 0,5s, 2 – 1s, 3 – 1,5s, …9 – 4,5s 0 - filter 50ms
Alarm SMS text setting		
2345X01,Input 01 2345X01	1-Event Input 1 0-1 1-	Text up to 32 char (see table “Text SMS Message” below) Clear text
2345X01?	1-Event Input 1 0-1	Get text
GPRS parameters		

2345WA,apn 2345WA? 2345WA,	APN: internet APN:	Set APN Get APN disable FTP mode (default)
2345WU,userID 2345WU? 2345WI, 2345WI,IP 2345WI?	User ID: userID IP: 0.0.0.0	r ID Get User ID Set IP 0.0.0.0 (default) Set IP Get IP
2345WP,password 2345WP?	Passw: password	Set password Get password
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 Clear FTP password
2345M?	FTP: Host Name: HostName User ID: UserID Psw: password	Get FTP setting
FTP period parameters		
2345Dn 2345DF0 … 2345DF9	(parameters)	Set DataLogger Period, n = 1,2,4,8 (4,8,16,32 line in file) default 4 line in file Set DataLogger Filter, 0..9 0: filter = 0,5 min 1: filter = 1 min 2: filter = 1,5 min 3: filter = 2 min, **default**
Set/Reset Outputs; Timer Outputs; only for Output 1		
2345S1 2345S2	(Information)	Set output 1 or 2
2345R1 2345R2	(Information)	Reset output 1 or 2
2345V,030	(iparameters)	set duration for timeout = 30 min Maximum 240 min. (default 15 min)
2345T,060 2345T	(information)	set output for timeout = 60 min default timeout = 15 min Maximum 240 min. set output for timeout = default For Out.1 only.
2345jO,S	(information)	Pulse for output: O – output 1 or 2, S – pulse duration 0 … 9 S=0: 1sec S=1: 3sec … S=9: 19sec

Analog setpoints		
2345L1,0300 2345L2,0100 2345L3-006	(parameters)	Set min level for analog, **default:** 0000 Set min level for battery, **default:** 0100 100 - level 10.0 (% or V) Set min temperature = -6 dec C **default:** -010
2345H1,0500 2345H2,0150 2345H3+030	(parameters)	Set max level for analog, **default:** 0000 Set max level for battery, **default:** 0150 150 - level 15.0 (% or V) Set max temperature = +30 dec C, **default:** +030
2345L or 2345H	(parameters)	Get parameters
2345LA,01 2345LT,05	(parameters)	Set analog timeout filter 00-99 01: 1min; 02: 2min; 03: 3min … 99: 99min **default** 1 Set temperature timeout filter 00-99 01: 1min; 02: 2min; 03: 3min … 50: 50min … 99: 99min **default 2**
Restart		
2345O	restart	
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 (see paragraph JUMPERS)

Event SMS

Digital	Analog	Battery	
Text SMS UTC: 310716,092536 5654.8295,N 02411.0719,E Speed: 0km/h 16/07/31,12:25:28	Text SMS Analog: 00.0% UTC: 310716,092536 5654.8295,N 02411.0719,E Speed: 0km/h 16/07/31,12:25:28	Text SMS Battery: 10.0V UTC: 310716,092536 5654.8295,N 02411.0719,E Speed: 0km/h 16/07/31,12:25:28	Text SMS (“Text SMS message”) 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

2345K,XY (parameters) internal control
X = 0,1...F for 1-0 digital event
Y = 0,1...F for 0-1 digital event
(see paragraph INTERNAL CONTROL)

NOTE
If Temperature sensor connected, INTERNAL CONTROL only for Dig.Inp.3 and 4

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).

T30 < 30 min >

Internal Control

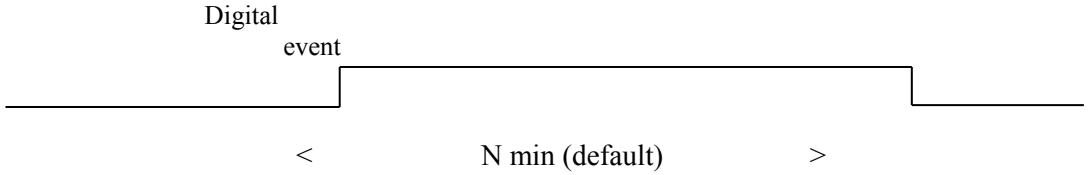
Internal control for set Output 1 ON on duration time if event digital input.1,2,3,4

	Digital Input event 1-0				Internal control with Out.1 for default time
	4	3	2	1	
SMS command					
2345K,00	0	0	0	0	disable
2345K,10	0	0	0	1	Out.1 ON if event digital input 1 1-0
2345K,20	0	0	1	0	Out.1 ON if event digital input 2 1-0
2345K,30	0	0	1	1	Out.1 ON if event digital input 1,2 1-0
2345K,40	0	1	0	0	Out.1 ON if event digital input 3 1-0
...					
2345K,F0	1	1	1	1	Out.1 ON if event digital input 1,2,3,4 1-0

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

2345K,02	0	0	1	0	Out.1 ON if event digital input 2 0-1
2345K,03	0	0	1	1	Out.1 ON if event digital input 1,2 0-1
2345K,04	0	1	0	0	Out.1 ON if event digital input 3 0-1
...					
2345K,0F	1	1	1	1	Out.1 ON if event digital input 1,2,3,4 0-1

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



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

Data Logger FTP

Directory /[**IMEI from GSM modem**]
for example **/863591021624279**

Files format:

160731121611.txt (YYMMDDHHMMSS.txt)

Datalogger row:

270716,113007,12.1,5654.82050,N,02411.09700,E,49,00.0,24

if Smartec SMS temperature sensor connected
270716,113007,12.1,5654.82050,N,02411.09700,E,49,00.0,-15,24

where
270716,113007, - UTC time DDMMYY,HHMMSS
12.1, - Battery voltage in V
5654.82050,N, - Latitude
02411.09700,E, - Longitude
49, - Speed in km/h
00.0, - Analog Input in %
.-15, - Temperature in deg.C (optionally)
24 - GSM Signal Quality

GPS MONITORING with SMS

Enable with SMS command 2345Y1
Disable with SMS command 2345Y0
parameters for SMS monitoring

2345A1 … 2345A9 set Speed Level 10 ... 90 km/h
2345AS0 … 2345AS9 SMS speed filter (SMS frequence); 0: speed filter = 0,5 min, 1: speed filter = 1 min, 2: speed filter = 1,5 min, 3: speed filter = 2 min ...

2345AP0 Auto-SMS disable
2345AP1 … 2345AP9 Auto-SMS period (if speed < Speed level, for example if speed = 0); 1 - period = 1 hours, 2 - period = 2 hours ...

SMS example:
UTC: 211018,112428
5655.35N 02409.4265E
Speed: 065km/h

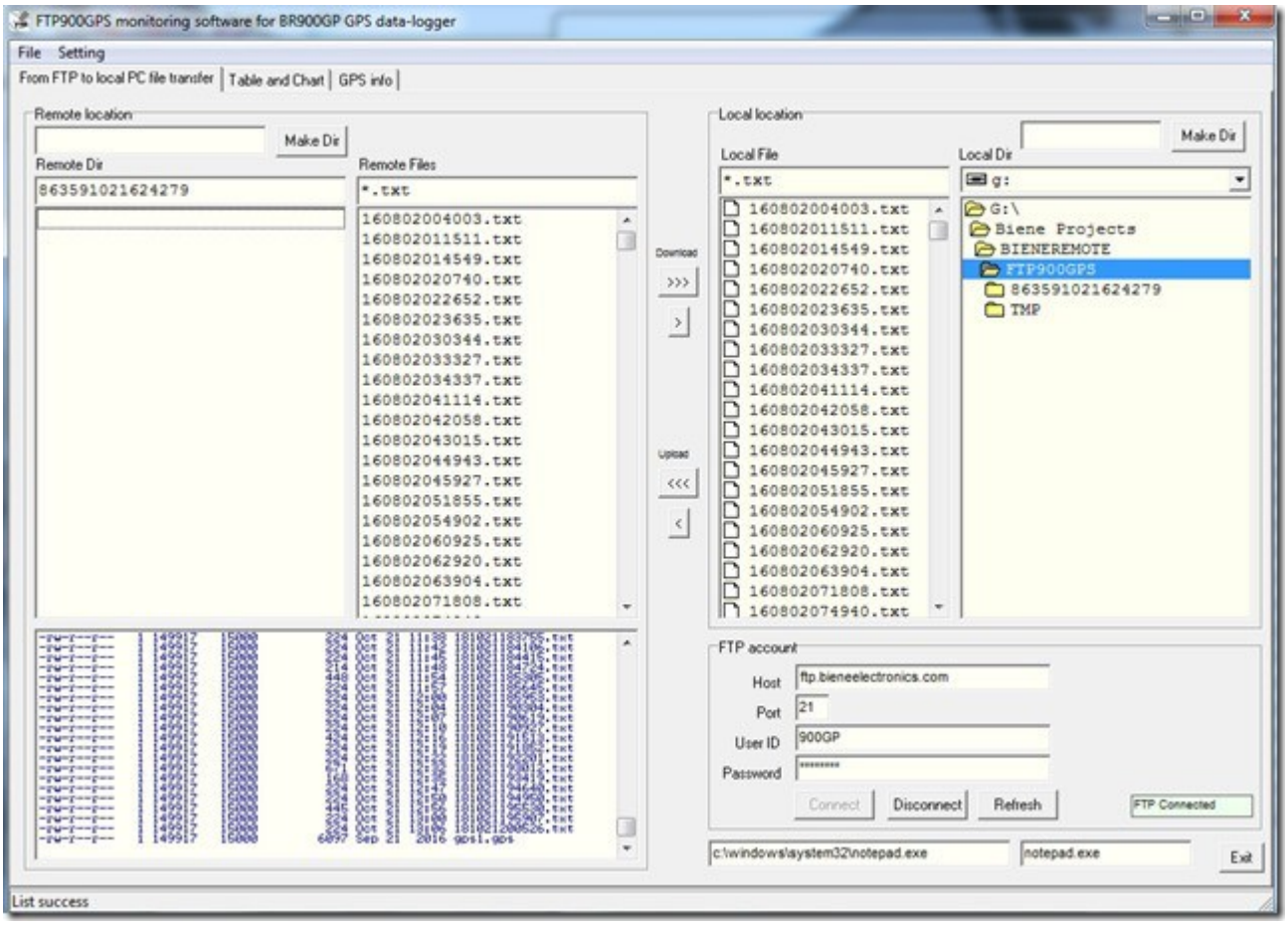
GPS MONITORING with FTP

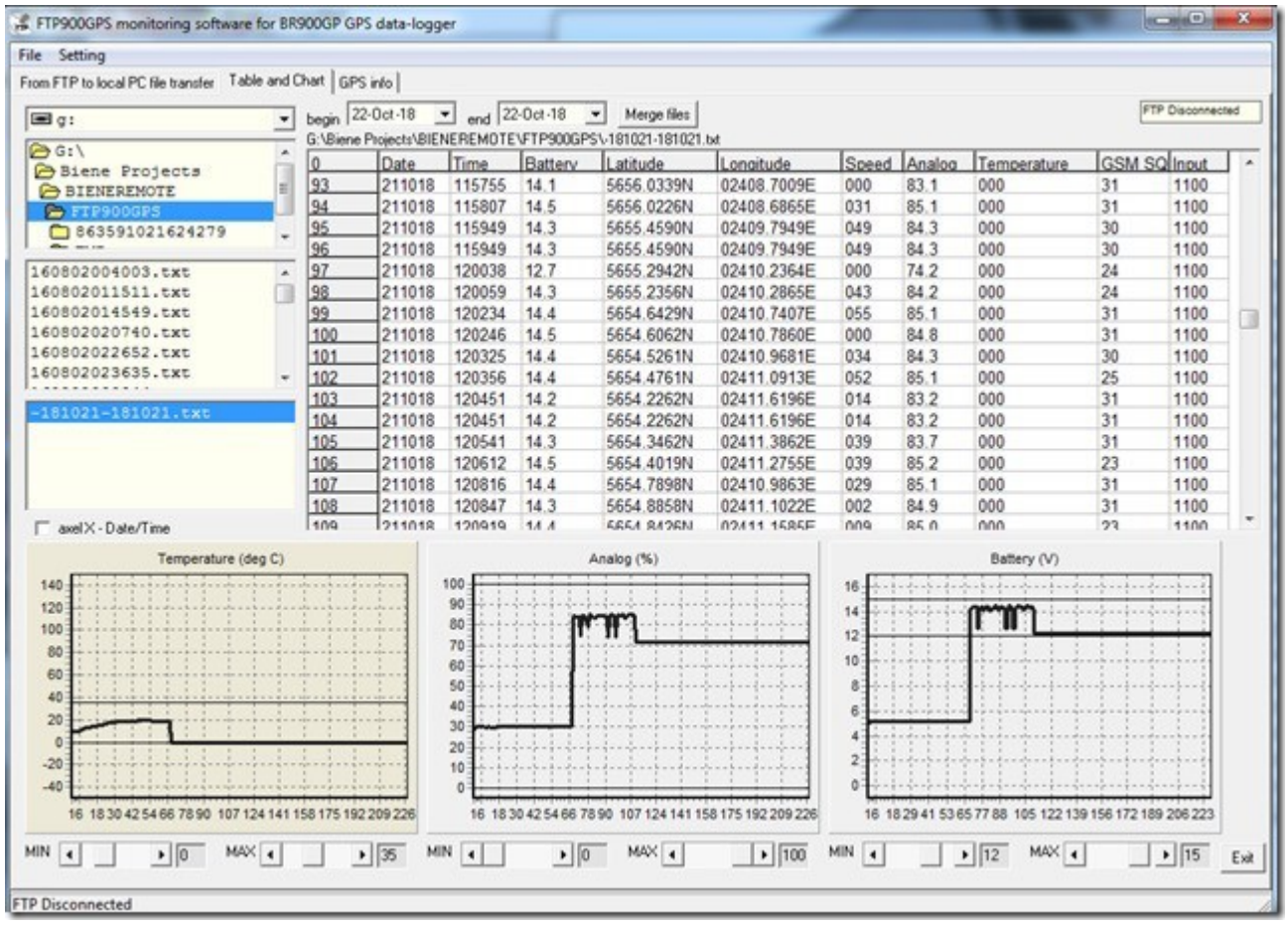
Enable with SMS command 2345WA,internet (as example)
Disable with SMS command 2345WA,

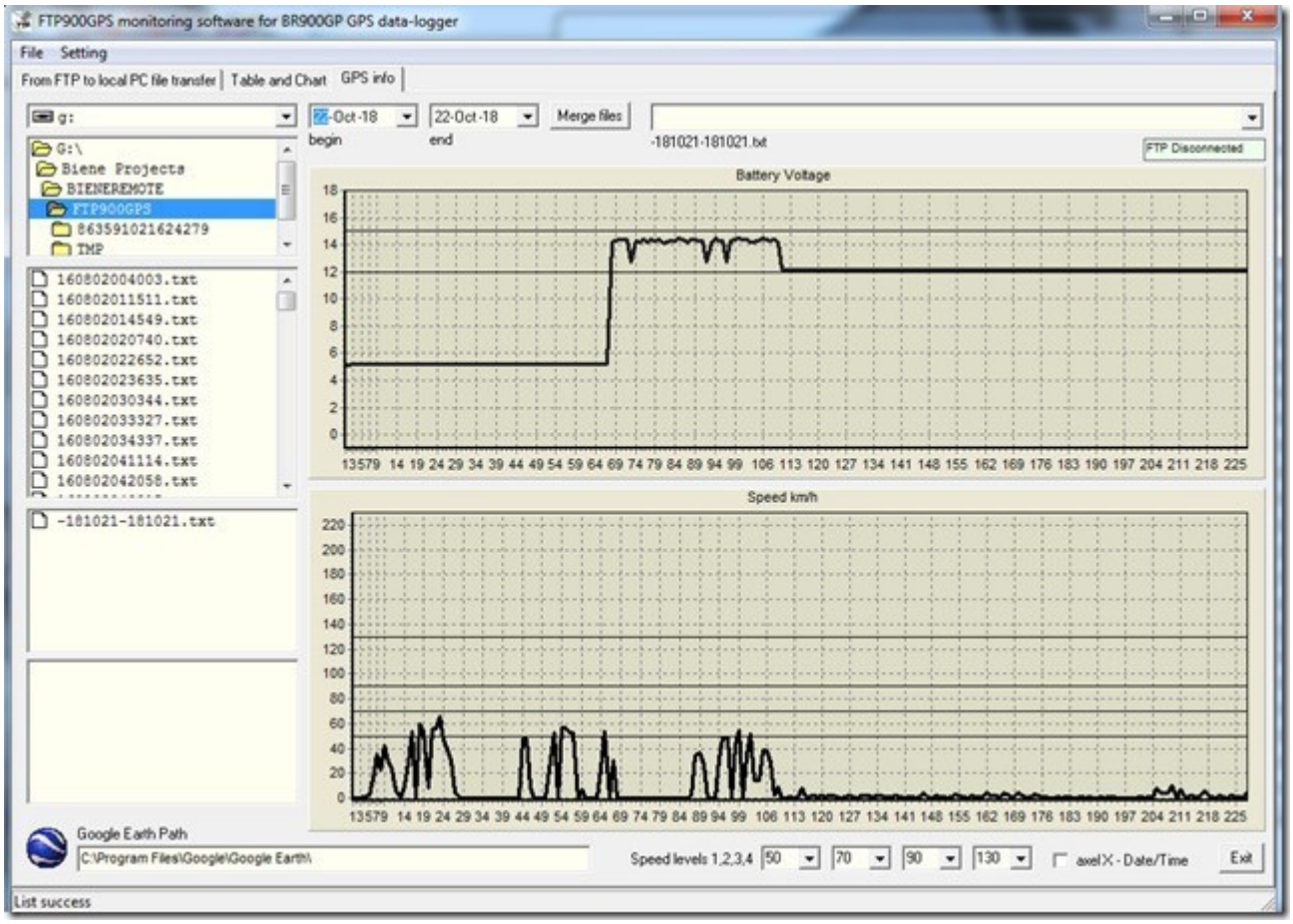
File example:
211018,115949,14.3,5655.4590N,02409.7949E,049,84.3,30,C
211018,115949,14.3,5655.4590N,02409.7949E,049,84.3,30,C
211018,120038,12.7,5655.2942N,02410.2364E,000,74.2,24,C
211018,120059,14.3,5655.2356N,02410.2865E,043,84.2,24,C
DDMMYY,HHMMSS,BATT, CURRENT LOCATION ,SPEED,AN%,SQ,DInputs 1100

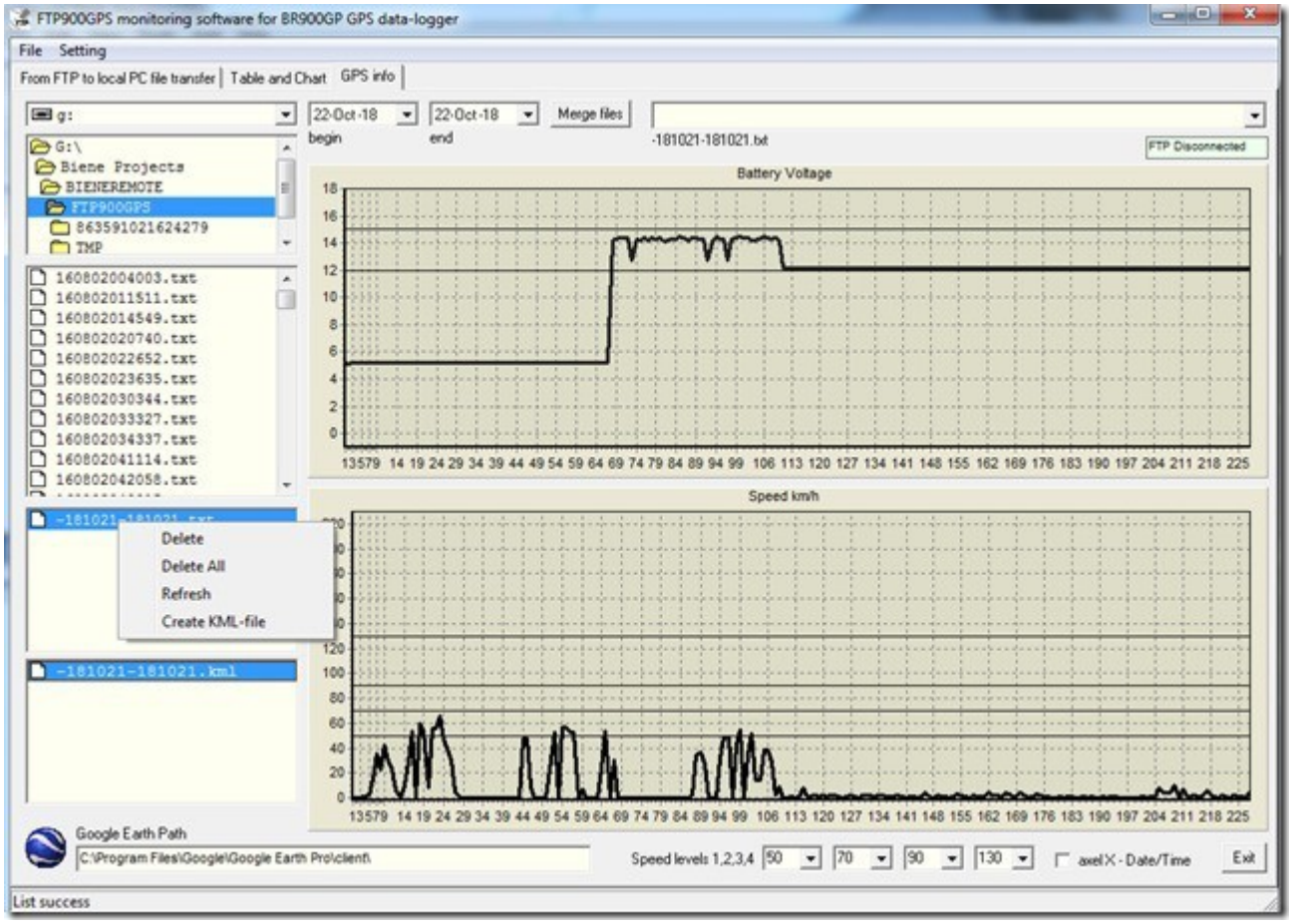
visualization SOFTWARE for FTP monitoring

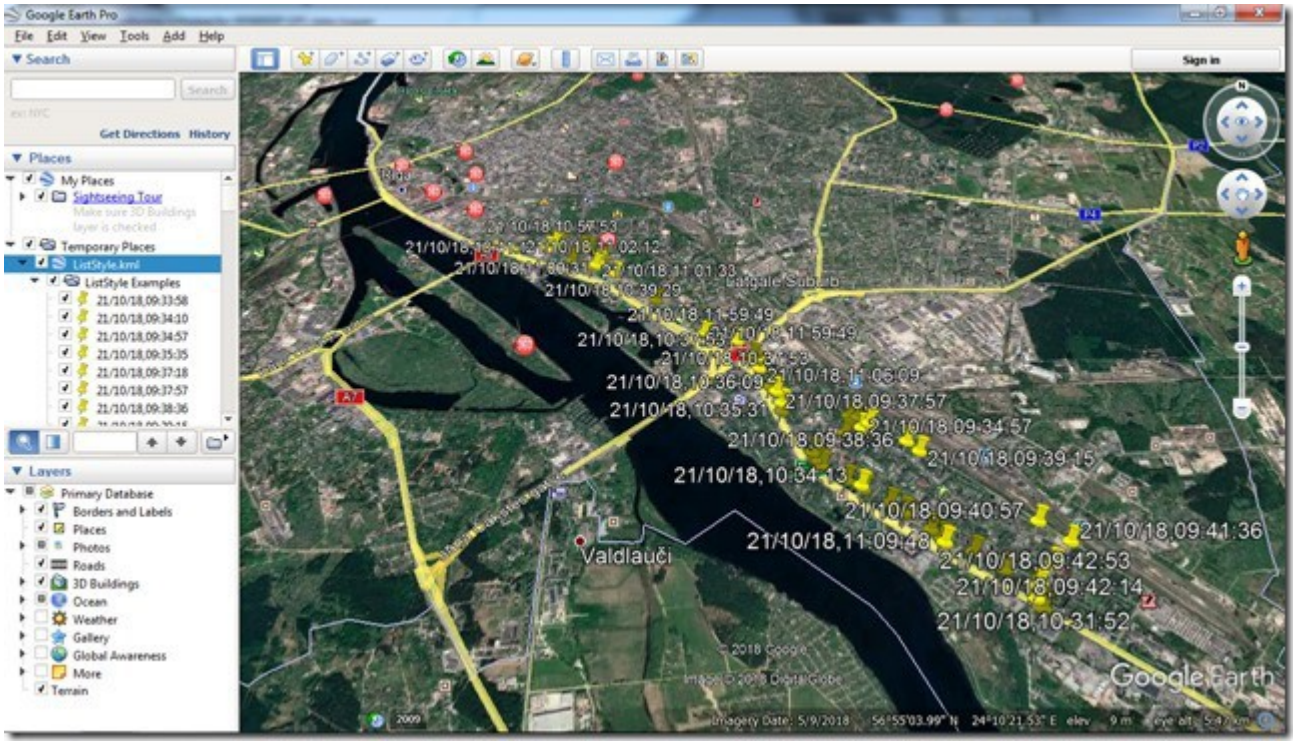
GSM module BR900-GPS






FTP900GPS monitoring software for BR900GP GPS data-logger
File Setting
From FTP to local PC file transfer
Table and Chart
GPS info
Merge files
begin
end
-181021-181021.txt
FTP Disconnected
Battery Voltage
Speed km/h
Google Earth Path
C:\Program Files\Google\Google Earth\
Speed levels 1,2,3,4
axel X - Date/Time
Exit
List success


FTP900GPS monitoring software for BR900GP GPS data-logger
File Setting
From FTP to local PC file transfer
Table and Chart
GPS info
Merge files
begin
end
-181021-181021.txt
FTP Disconnected
Battery Voltage
Speed km/h
Delete
Delete All
Refresh
Create KML-file
-181021-181021.kml
Google Earth Path
C:\Program Files\Google\Google Earth Pro\client\
Speed levels 1,2,3,4
axel X - Date/Time
Exit
List success


Google Earth Pro
File Edit View Tools Add Help
Search
Get Directions History
Places
My Places
Sightseeing Tour
Temporary Places
ListStyle.kml
ListStyle Examples
Layers
Primary Database
Borders and Labels
Places
Photos
Roads
3D Buildings
Ocean
Weather
Gallery
Global Awareness
More
Terrain
Sign in
Valdlauči
21/10/18,10:34:13
21/10/18,11:09:48
21/10/18,09:41:36
21/10/18,09:42:53
21/10/18,09:42:14
21/10/18,10:31:52
Google Earth