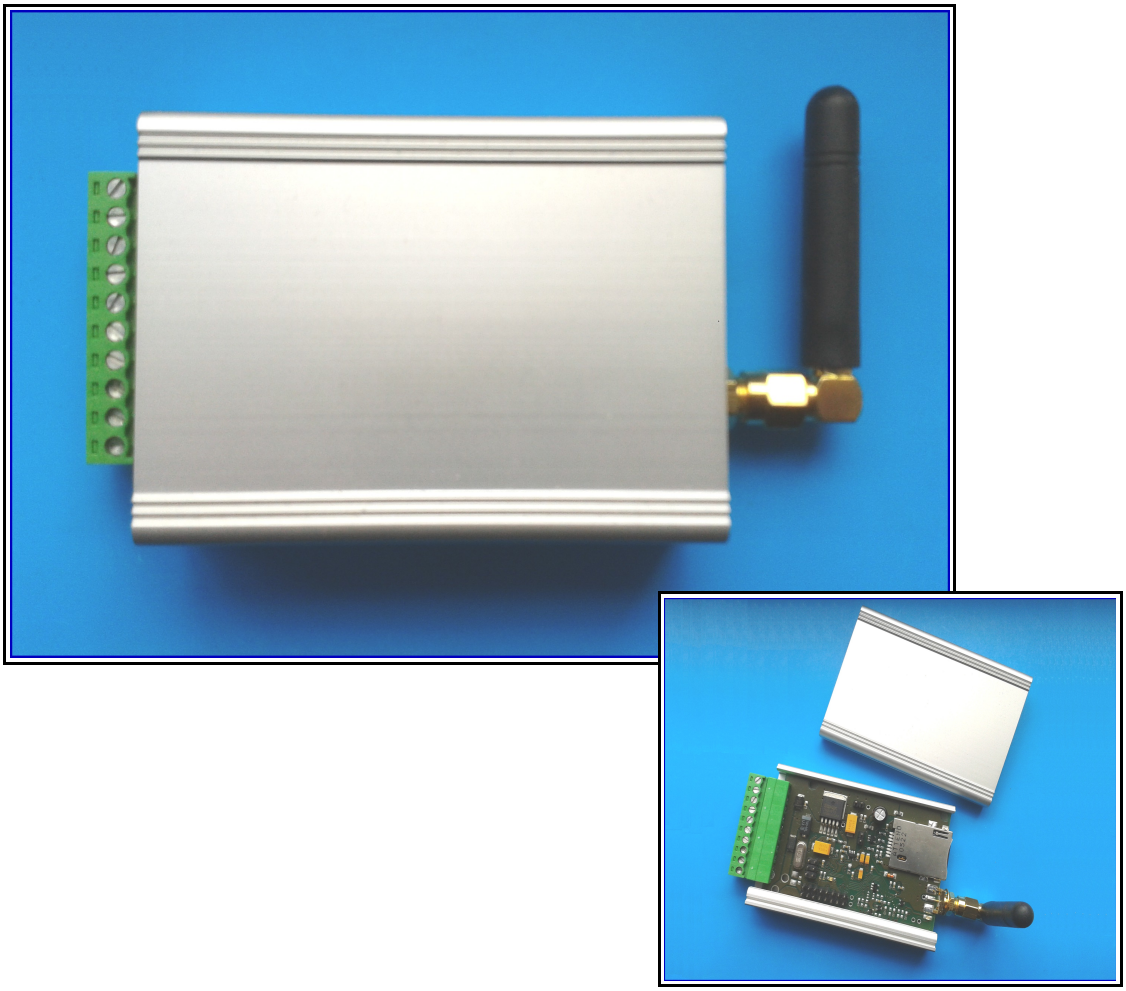
Biene Electronics
www.bieneelectronics.com

GSM Controller
BieneRemote900-series
Remote control and monitoring
and
automatic managing between modules use
"module-to-module"
control function

application note



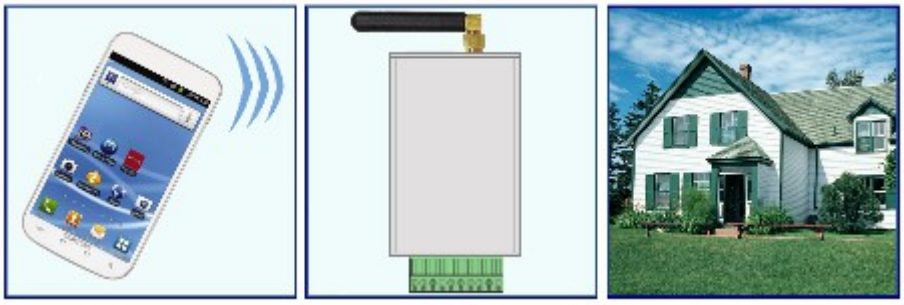
Introduction

Remote management of electrical devices is today needed function in industrial and commercial spheres. General function of the BieneRemote900 GSM module is remote control and monitoring via mobile phones of:
- many industrial processes and unsupervised equipment
- heating, lighting and conditioning of homes
- failures in controlled equipment, power generators and other objects alarming

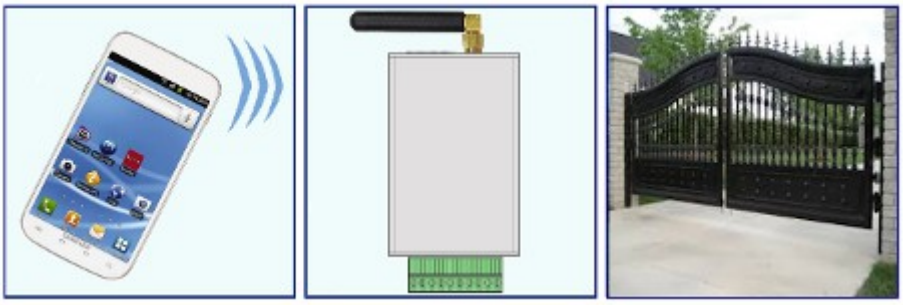
Special data-logger version of the BR900 GSM module with enhanced inputs (up to 8) and outputs (up to 3) can transmit this information via FTP to VEB server.
GPS version of BR900 is intended for GPS vehicle tracking, battery voltage and fuel level monitoring.

Outputs control

Managing home.
With SMS message command from you mobile phone, you can switch on the heating few hours before your arrival to your holiday homes. With SMS message command from you mobile phone, you can switch on the lighting in your home from hotel during your trip.

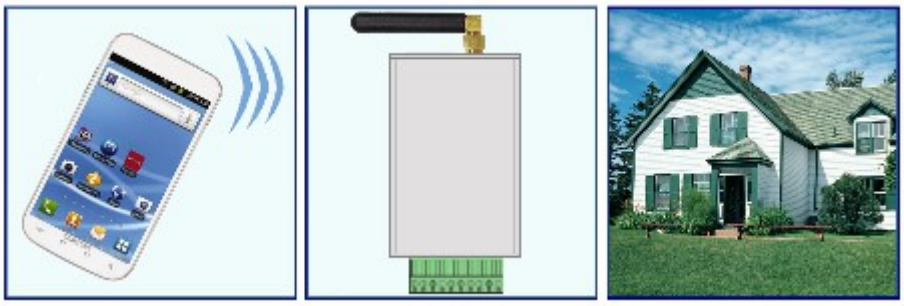


Managing Gate
With free call from you mobile phone, you can open gate of your home from your car.

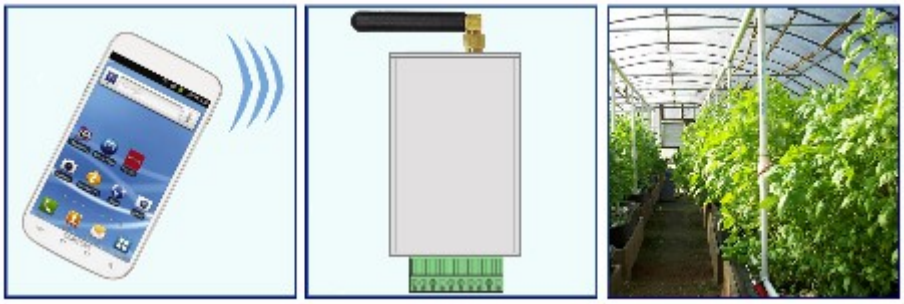


Inputs monitoring

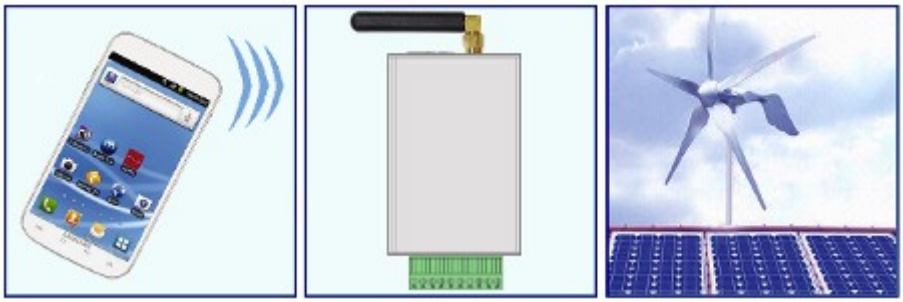
Home managing
With SMS message from GSM module, you can receive information to your mobile phone about your home temperature, receive alarm SMS from motion detector, fire alarm, door open detectors. With SMS message command from you mobile phone, you can switch on the heating or conditioning.



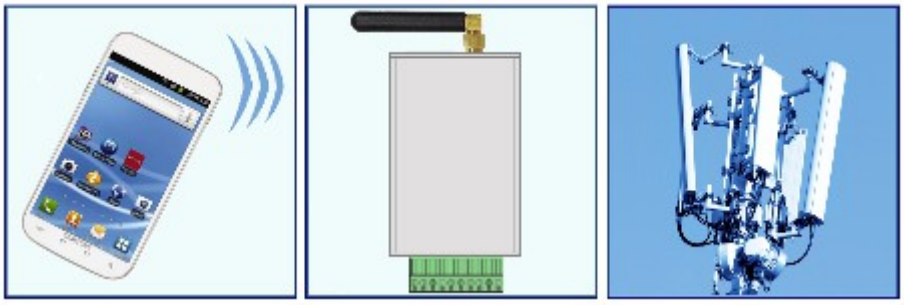
Greenhouse managing
With SMS message from GSM module, you can receive information to your mobile phone about your greenhouse temperature, humidity, receive alarm SMS about high or/and low temperature. With SMS message command from you mobile phone, you can switch on the irrigation system.



Green energy system monitoring
With SMS message from GSM module, service personal can receive information to mobile phone about wind generator, solar panel, fuel generator state.



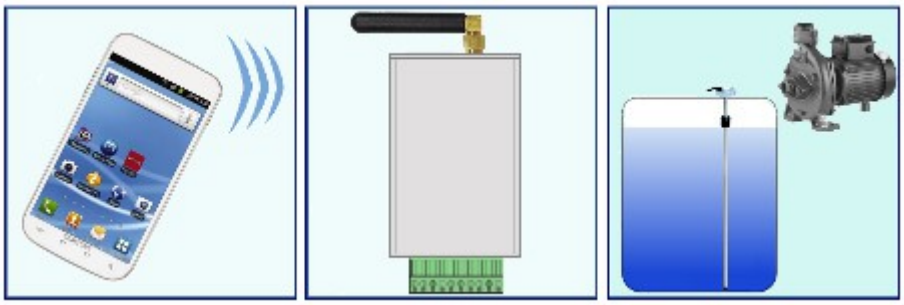
Base station monitoring
With SMS message from GSM module, service personal can receive information to mobile phone about base station state, receive alarm SMS about failed equipment.
With SMS message command from you mobile phone, you can restart failed equipment.



Water tank and pump managing

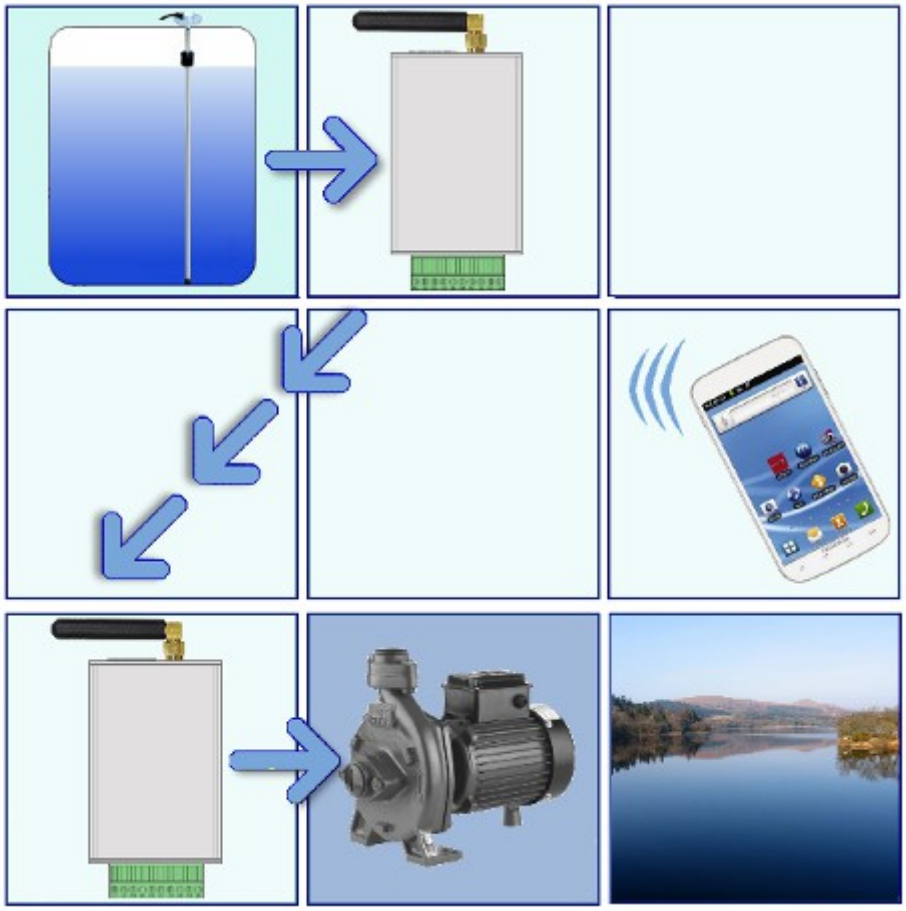
With SMS message from GSM module, you can receive information to your mobile phone about water tank status, receive alarm SMS about high or/and low water level. With SMS message command from you mobile phone, you can switch on the pump for water reservoir filling.

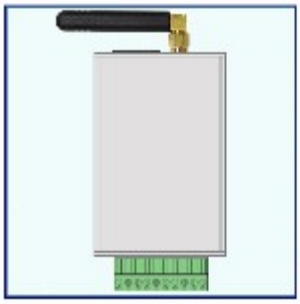
BR900 GSM module can in case water low level, automatically send SMS message command to other BR900 GSM module for switch on the pump for water tank filling.



Automatic managing use module-to-module control function

If water tank level is low, first GSM module send SMS message command to other GSM module to turn pump ON. If water tank level is high, first GSM module send SMS message command to other GSM module to turn pump OFF. At the same time service personal can receive SMS message about emergency state and also request SMS message about the current state of the system.



GPS tracking

SMS message from you auto, you can receive to your personal computer information about your car position and battery voltage. And after your traveling you can see your traveling on the map.