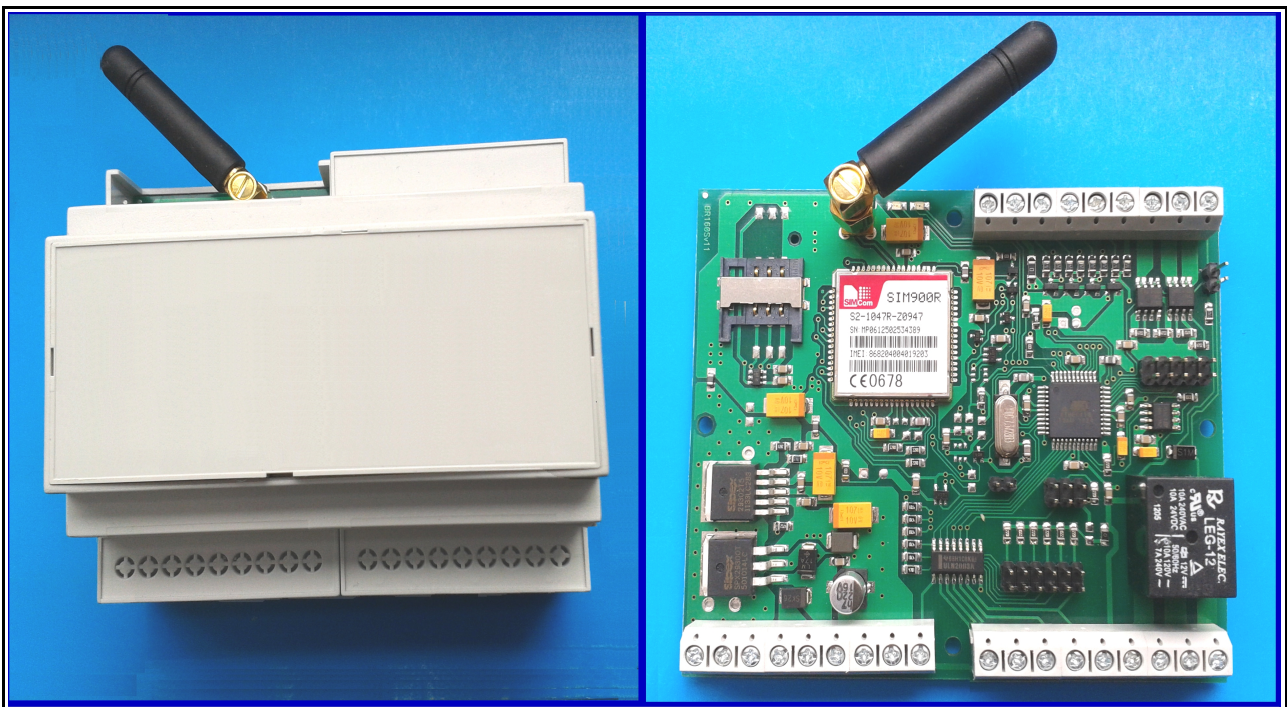


# **GSM Controller BR160SM**

## **Remote control and monitoring and automatic managing between modules use "module-to-module" control function**

application note



Remote management of electrical devices is today needed function in industrial and commercial spheres. General function of the BR160SM 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

Base versions of the BR160SM GSM module have 6 digital nputs, 4 analog inputs, 3 open-drain MOSFET outputs, 1 relay outputs and suitable for monitoring alarms and status in industrial and commercial systems. Information about the status of inputs and outputs is transmitted via SMS.

## Outputs control

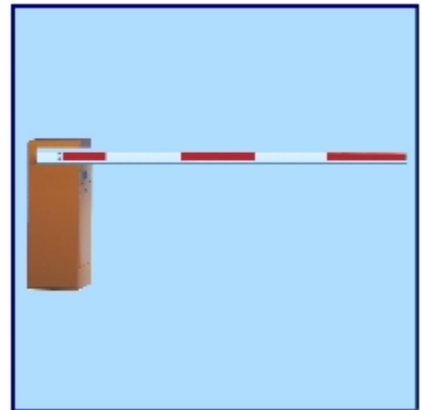
### Managing homes.

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 about motion detection, fire alarm, about open doors and gate. 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.



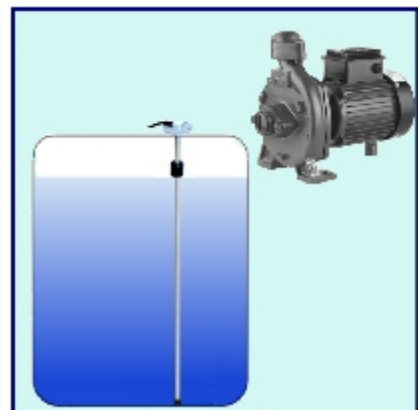
### Green energy system monitoring

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



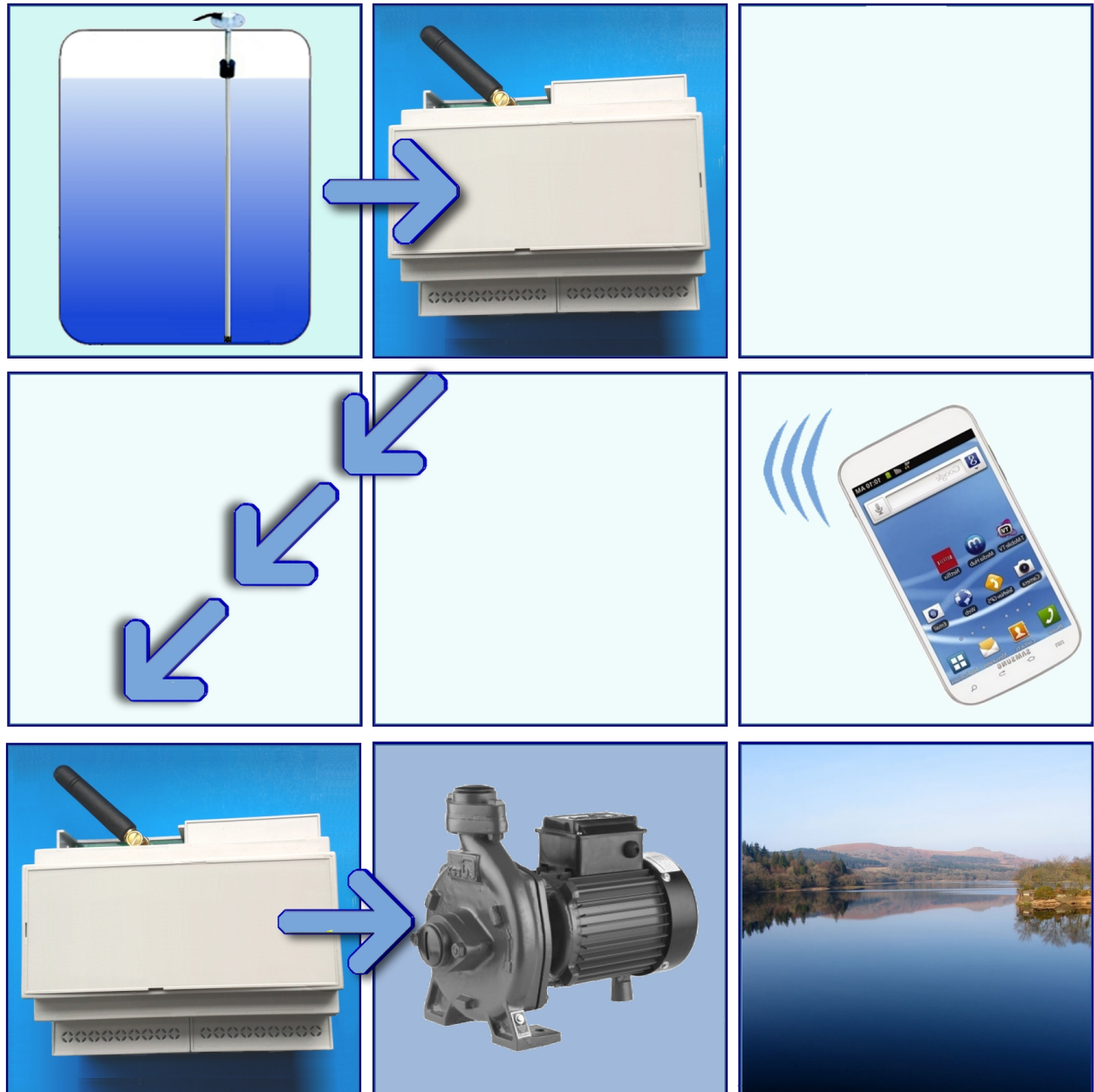
### Water tank and pump managing

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. BienRemote GSM module can in case water low level, automatically send SMS message command to other BienRemote 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.



### 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.

