



**Thitronik**

*providing solutions...*

Redderkoppel 5  
D 24159 Kiel (Germany)

Tel.: +49-(0)431-66668-0

e-mail: [info@thitronik.de](mailto:info@thitronik.de)  
[www.thitronik.de](http://www.thitronik.de)

## ***GSM-Module***

Installation and operation manual

!! Please read carefully before installation !!



The GSM-Module alerts in case of an burglary alarm via SMS. Furthermore you can control an relay output by SMS to remote control appliances such as air condition, light, etc... In Case your batteries reach a critical state, you will automatically be informed by SMS. It is also possible to request a status SMS from the module, which contains information about, the WiPro status, the power supply and the signal quality. Should it be necessary to give someone access to your vehicle from afar you can engage and disengage WiPro by SMS. Up to 5 phone numbers for alarm reception can be stored. The programming of the numbers is done with one single SMS. A prepaid-, as well as contract GSM phone card can be used. By using a prepaid card, you avoid contract based charges in addition to the SMS costs. In this case the credit remaining on the prepaid card will be included in any SMS.

### 1. Connection of the GSM-Module:

red cable	+12V (protect with included fuse)
black cable	-12V (GND)
blue cable	relay output „NO“
pink cable	relay output „NC“
grey cable	relay output „COM“
brown cable	refer to GPS manual
white cable	refer to GPS manual
yellow cable	refer to GPS manual
green cable	refer to GPS manual

RJ11 phone cable to interconnect WiPro and the GSM-Module.

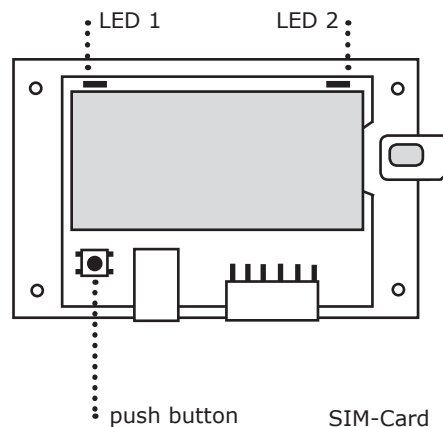
### 2. Insertion of the GSM Card:

! Before inserting the card, change the PIN to 0000. To do so, place the card in your mobile phone and follow the instructions of the phones manual to change the PIN !

Disconnect both plugs and open the housing of the GSM-Module.

Place the SIM card into the GSM module, like shown in figure 1.

figure 1



### 9. Control the relay output by SMS:

Send a SMS containing the following information to the GSM-Module, in order to activate the relay output for a chosen time frame:

#### on123

The Number behind the word „ON“ stands for the time, you wish the relay output to be activated, in minutes. This time can be set from 1 to 128 minutes in steps of 1.

Send a SMS containing the following information to the GSM-Module, in order to deactivate the relay output:

#### off / aus / eteindre

Send a SMS containing the following information to the GSM-Module, in order to activate the relay output for 0,5 seconds:

#### pulse / pulso

Send a SMS containing the following information to the GSM-Module, in order to activate the relay output for 1 second:

#### pulse1 / pulso1

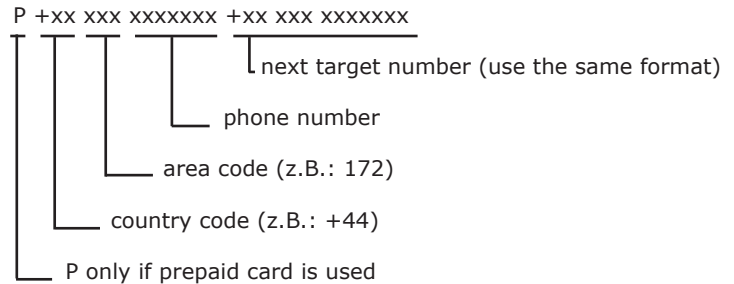
### 10. Technical specifications:

power supply:	9-36V
current consumption (transmission):	appx. 250mA
current consumption (std. by):	appx. 65mA
frequency:	1800/900Mhz
possible target numbers:	5
temperature range:	-10°C bis +80°C
interfaces:	RJ11 (input for WiPro)
output:	Relay (change over contact handles up to 1 A load)

### 3. Programming of target phone numbers :

To program the phone numbers, on which you wish to receive alert messages, send a SMS to the GSM-module containing these numbers (max. 5 numbers).

This SMS message must have the following format:



The letter P needs to be the first character in this message if a prepaid card is used. When using a contract card start with the country code of the first phone number.

There are no spaces to be used also not between the numbers.

The first number in the programming SMS will be the master number. Only this number, has the permission to request a status report, control the relay output and remote control the WiPro main unit. All other programmed numbers will only receive alert messages.

### 4. Deletion of programmed target numbers:

In case the programmed numbers need to be deleted, a new programming SMS (like described above), can be sent by the master number to overwrite the existing numbers.

Alternatively the stored numbers can be deleted by pressing and holding the button (figure 1) while connecting the power supply.

**5. Status indicated by LED's:**

LED 1 flashes red: net search  
 LED 1 flashes green: logged in  
 LED 1 continuously red: insert SIM-card  
 LED 1 flashes red/green wrong pin-code

LED 2 flashes red: no target phone numbers programmed  
 LED 2 continuously red: SMS waiting for transmission

**6. Automatically generated alert messages:**

In case a prepaid card is used, the credit remaining on that card will be included in any message. (if supported by service provider.)

!Attention! Burglary drivers cabin! *Input door contact triggered*  
 Ignition on! *ignition off, no indication*

!Attention! Burglary living area!  
 Ignition on! *Magnetic contact triggered*  
*ignition off, no indication*

!Attention! Gas!  
*Input G.A.S.-pro triggered*

!Attention! Case of emergency!  
*Panic alarm trough*  
*remote control*

!Attention! Battery low:11,2V  
 GSM going to sleep!  
*If the batteries voltage*  
*reached a critical state the*  
*GSM-Module will shut down*  
*automatically to save power.*  
*Can be reactivated by turning*  
*the power supply off and on*  
*again or Voltage raises up to*  
*11.3V.*

!Attention! vehicle stolen!  
 In case of an activated WiPro  
 the speed exceeds 30 km/h.  
 !! GPS receiver necessary !!

**7. Requesting a status report:**

To request a status report from the GSM-Module, call the number of the module, using the master phone. Wait until the module quits the call. The report will be sent and contains the following information:

system status: armed or disarmed  
 output: ON or OFF  
 ignition: ON *ignition off, no indication*  
 battery: \_\_\_/\_V  
 signal quality: \_\_\_%  
 balance on prepaid card: \_\_\_;\_€ *if supported by service provider*

*GPS data as described in the GPS receiver manual. GPS receiver necessary.*

**8. engaging and disengaging WiPro by SMS:**

After every change a status report will automatically be generated.

Send a SMS containing the following information to the GSM-Module, in order to engage WiPro:

**arm / scharf / active / attivato**

Send a SMS containing the following information to the GSM-Module, in order to disengage WiPro:

**disarm / unscharf / desactive / disattivato****9. Control the relay output by SMS:**

After every change a status report will automatically be generated.

The relays output is a change over contact. This contact can handle up to 1 A. For bigger loads, an external relay has to be used.

Send a SMS containing the following information to the GSM-Module, in order to activate the relay output permanently:

**on / an / allumer**