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# **GSM remote controller** v7.0 / v7.0 PRO

## **Operating Instructions**



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## **1 Delivery content**

GSM Remote Control

GSM Antenna (Straight)

8-pin cable to connect the power supply etc.

Operating manual



### **1.1 optional Accessories**

external GSM Antenna

8-pin cable

## 2 Safety

Read before you operate the GSM remote control, these operating instructions. Note to and observe the generally applicable and local regulations for accident prevention and environmental protection. Keep the operating instructions. Operate the GSM remote control does not exist in an environment where flammable gases, vapors, liquids or dusts may be present.



**Warning**, you do not expose this appliance to rain or moisture to avoid the risk of electrical shock or damage.

## 3 Intended Use

The GSM remote control, you can turn any device with a phone call. The GSM remote control is intended for private use and not for commercial purposes. Use the remote control GSM-only, as specified in this manual. The manufacturer is not liable for damages caused by improper use or misuse.



**Warning**, use the GSM remote control is not for the switching of life support systems or equipment which may be caused by uncontrolled hazardous situations on or off.



**Warning**, connect the GSM remote control only to devices with an operating voltage of +12 VDC and a maximum current of 1A.

## 4 Responsibility and liability

The GSM remote control has been developed and manufactured according to the current state of the art and recognized safety standards. It can not be sure that the GSM remote control as intended under all circumstances, at all times and under all conditions.



**Achtung,** Do not use the GSM remote control if a malfunction can result in endangering and / or property damage.

## 5 Malfunctions

The GSM remote control should be immediately taken out of service when safe operation of the GSM remote control is no longer guaranteed. Take all measures to avoid accidental opening. Repairs may be carried out by a specialist.



The answers to frequently asked questions section on our website under "FAQ ". The page is constantly updated  
. [www.handy-fernsteuerung.de](http://www.handy-fernsteuerung.de)

## 6 Disposal

Dispose of this product at a collection point. You can also return the product to the manufacturer for environmentally sound disposal



This product does not belong in the trash. Dispose of the product only in accordance with the law.

## **7 Differences v7.0 / v7.0 PRO / Alarm function**

The PRO version adds support for another data protocol (W-Bus PRO) with which most of the auxiliary heater can be switched.

Thus, for example the standard built-in heater in the VW Touran WITHOUT upgrade be used as a heater.

Optionally, the GSM radio system with alarm function is available. The description can be found under "outputs and inputs."

## **8 Description**

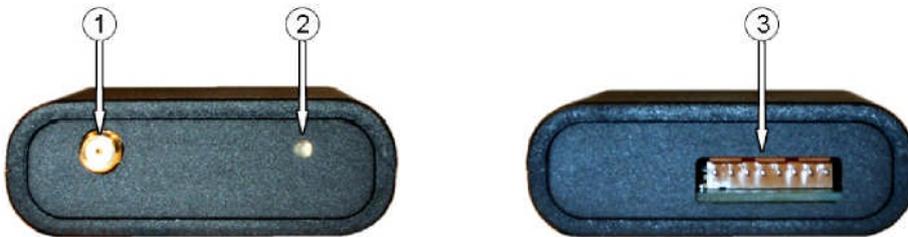
### **8.1 Functions description**

When calling the GSM remote control, it checks the phone number of the caller. If this consistent with the stored numbers, the switching process is triggered. It switches the output of the GSM remote control units for a presettable time +12 VDC, with which a device or a relay can be switched. Any further call on the switch output turns on and off. The switch can be preset by SMS (0.5s switching pulse-1min 999min, permanently).

### **8.2 Receipt of the switching process**

When calling the GSM remote control, you will first hear a dial tone. During this time, the caller's number is checked. When the switching process has been initiated, the connection through the GSM remote control is interrupted. Depending on the operator you will hear a busy signal or an announcement. So that you know whether the GSM remote control has switched on.

### 8.3 Connections



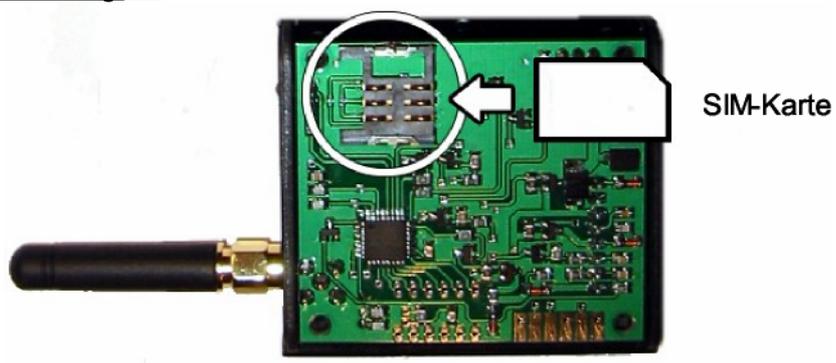
**Front view**

**Rear view**

Nr.	Description	Function
1	Antenna connection	Antenna connection (SMA Socket)
2	LED red / green	gn flashing: connected, Standby gn: Switching output active rd flashing: network search (not connected), bad reception rd: Error
3	Connection X1	Connection Power supply, Switching output, etc.

### 8.4 Use of the SIM-Card

The SIM card is inserted into the holder on the underside of the board. You must open the case. Unscrew the four screws on the back completely and remove from the case halves.



SIM-Karte

## 8.5 outputs and Inputs



### Switching output

This output may only be connected to consumers with an operating voltage of 12VDC and max. current of 1A.

### Ignition

The switch output and the heater will be turned off with the ignition

### Switch

As long as an input +12 V is present, the output for the preset time is active.

### Allarm in (*optional*)

When switching on the state of the alarm input is stored. If the state changes, the master number and the second number will be called for 30s and an alarm text message sent to the master number. The alarm input automatically switches back sharply if no alarm signal for 30 seconds is no longer present.

The alarm delay, you can specify how long the alarm must be present until the alarm is triggered.

## 9 Connecting a heater

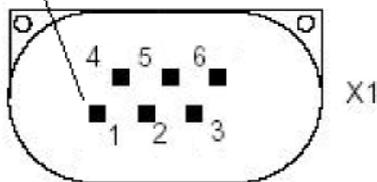
You can control a heater with the GSM remote control. The control of the heater varies depending on type and can be a +12 V, ground or W bus signal.



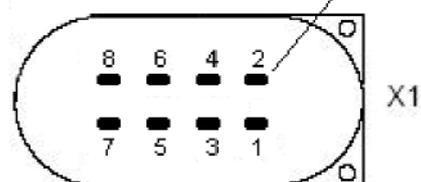
Older heaters are switched via a ground or +12V signal. As long as this signal is on, the heater runs. Newer heating systems (eg Thermo-Top C Thermo Top V) are controlled by a W-bus signal.

Connect the control output (ge) of the GSM remote control with the control pin of the heater and configure the control output according to the used heating. Notes on configuration, see the section at the end of this guide.

Thermotop C/Z



Thermotop V



Pin	Funktion	Pin	Funktion
1	Control input	1	
2		2	Control input
3		3	
4		4	
5		5	pump
6	pump	6	Solenoid valve
		7	
		8	

## **9.1 Heating fan**

The heater fan only works when the ignition is on. To use the fan in the heater operation can t you need a relay or IPCU module.

### **Relais**

In older vehicles, the speed of the heater blower on a multi-stage fan switch is set. This turns, depending on the fan level, different resistances to it. In this case, you must install an additional automotive relay

### **.IPCU**

On newer vehicles, the speed of the fan heater is electronically controlled by a PWM signal (IPCU). The fan speed is set by the climate control panel. In this case, you must also attach a IPCU module.

## 10 Possible settings

The following functions and settings can be configured by SMS.

### Password

To configure the GSM remote control via SMS, you must send the password. The password must be 5 numbers. You can change the password. By disconnecting the battery voltage, the password is reset to "12345 ". All other settings are retained.

### call numbers

You can specify up to 5 authorized phone numbers. The GSM remote control unit performs the switching process only if calling from one of these numbers from. The phone number can be max. 15 characters long and must be entered with international code. Number 1 is the master number. On this principle, all incoming SMS messages are sent ..



**Note:** Please enter the number with the international code : I.e.  
+49301234567

### Heating time

You can specify how long the control output (ge) and the switching output (black) by a call to be active.

### Heater blower delay

You can specify whether the switch output (sw) immediately after a call or delay is activated.



**Note:** The cooling water is only warm enough after switching on the heater for 5-10min. To save the car battery it is useful to enable the vehicle fan after that time.

### Off delay

You can specify whether the switch output (bk) at the end of the cycle will still remain active for a certain time.



**Note:** After switching off the heater, the cooling water is sufficiently warm for some time. Therefore, you can run the pump and the vehicle fan still further for 5-10 min.

### Venting

If you select the Venting, only the output for the heater fan is on and the heater is not activated



**Note:** The venting does not work if the fan is controlled by the heater. In this case, the function may be activated by installing an additional automotive relay.

### Heater type

The control of the heater varies depending on the type. The GSM remote control supports +12 V, W bus and mass-controlled heaters. At the control output (ge) then the appropriate signal is provided.

## 11 Configuration by SMS

After the first time, you must configure the GSM remote control via SMS. Either create yourself the configuration SMS using the table or use the SMS configurator on our website. Then send the configuration SMS to the GSM transmitter. If the SMS was properly recognized, the GSM remote control sends a SMS with the overview of the current settings to the master number. If the SMS is not recognized correctly, you receive an error message.



**Note:** Incorrect entries, such as for example Heater type or format of the call are not checked.

### 11.1 Syntax of the configuration SMS

Each function or option is assigned a number. The allocation of the respective parameter with "="sign. Close each entry with a ";". You can group several functions together in a text message (maximum 150 characters). Close the configuration SMS with "#".

### 11.2 Delete a call number

To delete a phone number, you override this easily with a „0“.



**Note:** override the number to be deleted always with at least 1 character, otherwise, the GSM module will malfunction.

### 11.3 Feature summary table

Nr.	Funktion	Mgl. Einstellung	Bemerkung
00	Password	5 numbers	Preset "1 2345"
11	Master call number	Max. 15 characters	Enter the numbers with the international area code. For Germany "+49".
12	Call number 2		
13	Call number 3		
14	Call number 4		
15	Call number 5		
20	Heating time	0-1000	0: Impulse ca. 0,5s 1-999: heating time in Minutes 1000: permanently on
21	Heater blower delay	0 – 999 min	
22	Off delay	0 – 999 min	
30	Output signal / Heater Type (Sh.-Typ)	0: Park heater 1: +12V 2: Ground 3: W-Bus 4: W-Bus PRO	Nr.4 is only supported by PRO version .With this TTV - Auxiliary heaters can be switched.
40	Alarm delay	0-250s 251: Alarm deactivated	Alarm function (optional)

#### The configuration SMS message is as follows

Password, telephone numbers, duration, fan delay, delay time; heater type;

#### Example SMS

The following example configures the GSM SMS remote control

Call number 1: 0305627853, Call number 2: 01706878981

Duration: 30Minuten, Fan delay: 5Minuten delay time: 1 Minute,

Heater type: W-Bus

**SMS Text for the example settings:** 12345;11=+49305627853;12=+491

706878981;20=30;21=5;22= 1;30=3;#

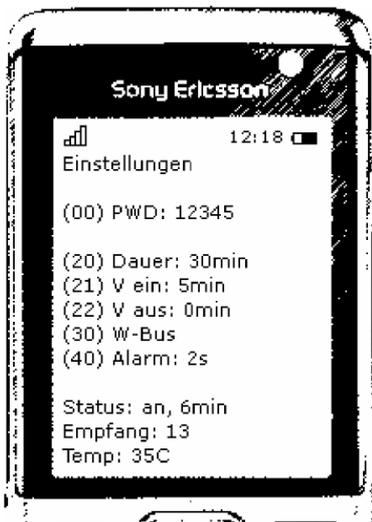
## 11.4 SMS Configurator

For easy configuration of the GSM remote control, you can use the SMS configurator on our website

: [www.danhag.de](http://www.danhag.de) ~ **SMS-Konfigurator** There you can enter all the settings easily and send SMS to the GSM remote control.

## 11.5 Check the Settings / Signal strength

To query the current settings, send an SMS with the text "Info" to the GSM transmitter. You will receive a reply SMS with current settings and the received signal strength to the master number.



(00) active Password  
(20) Heating time  
(21) Heater blower delay  
(22) Off delay  
(30) Output signal  
(40) Alarm delay

Status, aus / an, x min  
Signal strength 0-30  
Module Temperature

## 12 Putting into operation

Insert your SIM card into the GSM remote control.

Connect the GSM remote control according to the installation instructions

Connect the power supply.

Configure the GSM controller via SMS.

After connecting the power supply the GSM remote control performs a self-test. The light is red for about 2 seconds and then starts to flash red. Once the GSM remote control has connected in the GSM network, the LED flash green. The GSM remote system is now operational.



**Note:** deactivate the PIN request, the SIM card and all evl. existing call forwarding



All SMS sent to the GSM remote control will be forwarded to the master phone number. If you use a prepaid card you will be informed if the balance is low.

## 13 Manufacturer

danhag

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## 14 Technical Data

Supply voltage: +12VDC

Current consumption: ca. 30mA

Switching output : +12VDC, max. 1A

Working temperature: -20°C – 70°C

Dimensions ( LxWxH ): 64 x 60 x 22mm

## 15 Copyright / Brand name

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## 16 Declaration of conformity

The device is compliant with EU Directive 89/336/EWG/Elektromagnetische compatibility.

Applicable standards: EN 55022 / EN 55024 / EN 60950

