

# SMS-Box

Alarm display via the mobile network



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## Table of contents

<b>1</b>	<b>Introduction.....</b>	<b>3</b>
1.1	Safety instructions.....	3
1.2	Operating conditions.....	5
1.3	Delivery.....	5
<b>2</b>	<b>Installation .....</b>	<b>6</b>
2.1	Connection .....	6
2.2	Place of installation .....	6
2.3	Assembly .....	6
2.4	Configuration.....	6
2.5	Connections.....	8
2.6	Setting the alarm repeat function (4) .....	8
<b>3</b>	<b>Commissioning and configuration .....</b>	<b>8</b>
3.1	Software installation.....	8
3.2	FAFNIR SMS-Config.....	11
3.3	Inserting the SIM card .....	18
3.4	Checking status messages after programming .....	20
<b>4</b>	<b>Changing the configuration.....</b>	<b>21</b>
<b>5</b>	<b>Maintenance and cleaning .....</b>	<b>21</b>
<b>6</b>	<b>Fault diagnostics .....</b>	<b>22</b>
6.1	Power LED .....	22
6.2	GSM Status LED .....	22
6.3	Incorrect PIN.....	22
6.4	Alarm repeat function .....	22
<b>7</b>	<b>Technical data.....</b>	<b>23</b>
7.1	List of figures .....	24

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# 1 Introduction

The SMS-Box has three inputs which enable up to three different and independent alarm messages. Multiple devices can be connected to one input.

A jumper can be used to configure the SMS-Box so that the alarm message is sent every couple of hours until the error has been eliminated on-site.

## 1.1 Safety instructions

The SMS-Box is designed to forward alarm messages via SMS, e-mail and fax. Only use the SMS-Box for this purpose. Please observe and follow all product safety notes and operating instructions. The manufacturer accepts no liability for any form of damage resulting from improper use!

The SMS-Box has been developed, manufactured and tested in accordance with state-of-the-art technology and with recognised safety rules and regulations. Nevertheless, hazards may arise from its use. The following safety precautions must be observed in order to reduce the risk of injury, accidents or fire:

- The SMS-Box should only be installed, operated and maintained by specialised personnel. Specialised knowledge must be obtained by undergoing regular training.
- The housing of the SMS-Box must be intact at all times.
- Opening or removing the housing cover could result in a risk of electric shock.
- The housing cover must remain closed during normal operation.
- Do not change or modify the SMS-Box without the prior consent of the manufacturer.
- The SMS-Box is not intended for use in hazardous areas.
- Operators, installers and service technicians must comply with all applicable safety regulations. This also applies to any local safety regulations and accident prevention regulations which are not stated in these operating instructions.
- The SMS-Box should only be operated with the designated auxiliary power supply.
- The GSM module is equipped with highly sensitive components. Please observe the general ESD regulations. Only touch the GSM module at its outer edges and avoid contact with the electrical connectors and components on the circuit board.
- Wiring work should only be conducted when the unit is fully disconnected from the power supply.
- This product generates high-frequency signals. Do not operate it in the vicinity of medical devices and/or medical equipment.

- Do not switch the device on straight away if it has been transferred from a cold to a warm room. The condensation that develops as a result could damage your unit. Allow the unit to warm up to room temperature.
- The SIM card must only be inserted and/or removed when the unit is fully disconnected from the power supply.
- The SMS-Box forwards the alarm messages to a mobile phone, fax machine or e-mail address. The alarm can be delayed or not sent at all as a result of poor network coverage.

The safety instructions in this manual are labelled as follows:



**Failure to observe these safety precautions can result in a risk of accident or damage to the SMS-Box.**



*Useful information in these instructions that should be observed is printed in italics and marked with this symbol.*

## 1.2 Operating conditions



**As a general rule, if your mobile service provider or the local GSM network does not support “sending fax and/or e-mail”, these services, despite active configuration settings, will not be available. Prepaid cards do not often support this feature. Please contact your mobile service provider to see if they support this service.**



**A mobile network must be available at the place of installation.**



*Necessary accessories: activated SIM card with the desired services (SMS, fax, e-mail). PIN entry must be activated for the SIM card.*



*Prepaid cards should not be used, as an expired card or a card with inadequate credit will prevent the SMS-Box from transmitting the alarms.*

## 1.3 Delivery

- SMS-Box
- USB cable
- Installation CD
- Technical Documentation

## 2 Installation

### 2.1 Connection

The SMS-Box can be connected, for example, to the following FAFNIR devices:

- SEPARIX
- UM-X
- VISY-View
- VISY-Output box
- VAPORIX-Master
- Overfill prevention NB 220 and LS 500

Devices from other manufacturers with a potential-free alarm or switch output can also be used.

### 2.2 Place of installation

The place of installation should be selected based on the best reception quality.



*Check the quality of reception by using a mobile phone and the SIM card that you want to use in the SMS-Box. Place the phone at various locations to determine the area with the best reception quality.*

### 2.3 Assembly

The SMS-Box is designed for wall mounting inside a building. The housing cover must be removed for assembly.

### 2.4 Configuration

The following image shows the location of the connections and LEDs on the SMS-Box circuit board.

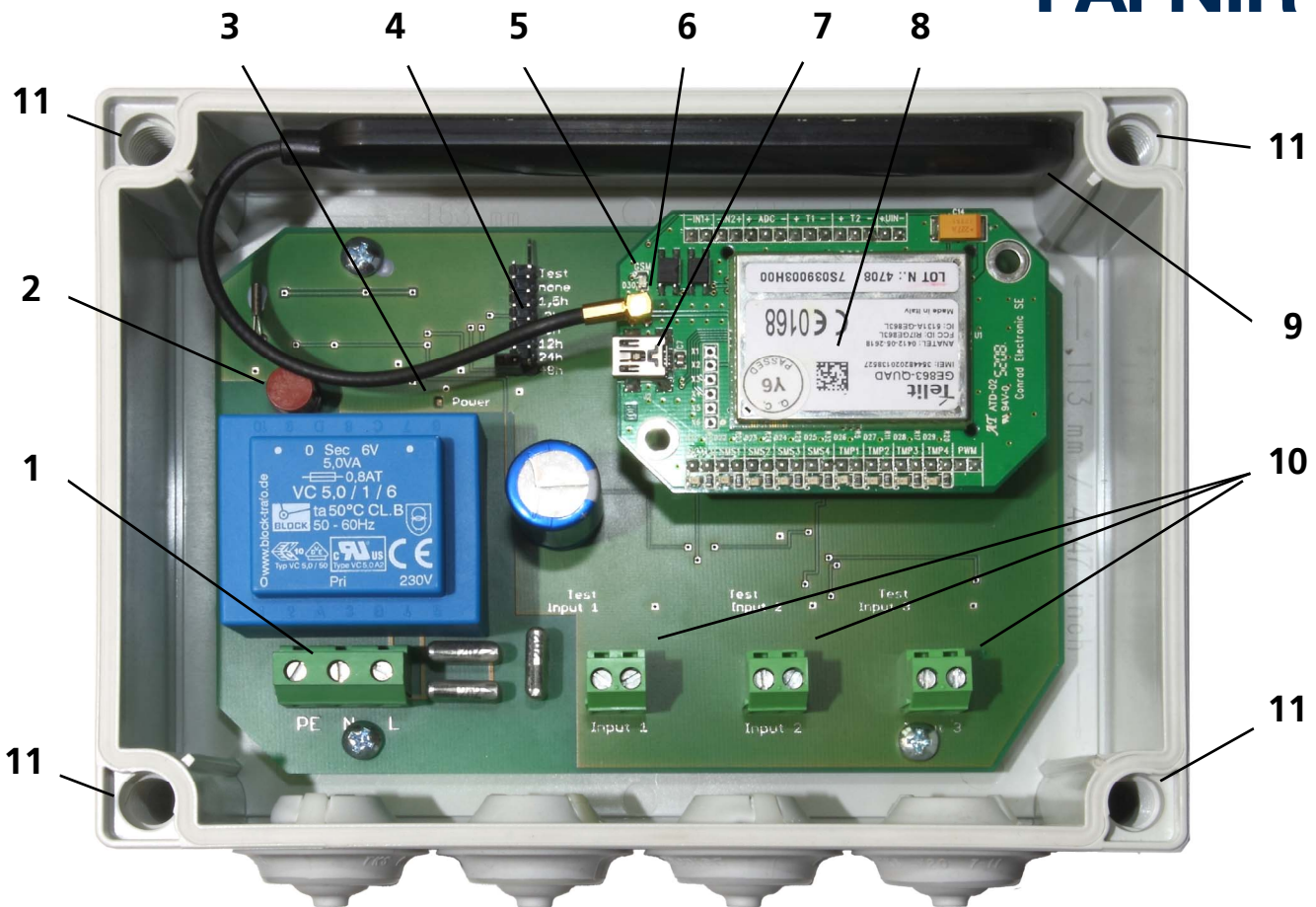


Figure 1: SMS-Box (opened)

- (1) 3-pin screw terminal for connecting the auxiliary power supply
- (2) 0.8A TR5® Fuse Time-Lag type (socketed)
- (3) Power LED (green)
- (4) 8 x 2-pin strip with jumper for activating and defining the alarm repeat function
- (5) GSM Status LED (green)
- (6) Aerial connection
- (7) USB connection
- (8) GSM module
- (9) Aerial/antenna
- (10) 3 x 2-pin screw terminal for connecting the input signals
- (11) Mounting holes

## 2.5 Connections

### 2.5.1 Auxiliary power (1)

The supply of auxiliary power (230 VAC) requires a permanent installation. The cables for the auxiliary power supply are to be connected to the screw terminals marked with PE, N and L.

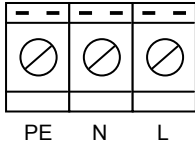


Figure 2: Auxiliary power screw terminal

### 2.5.2 Inputs (10)

The SMS-Box has 3 inputs for connecting external alarm units. Relay contacts or transistor outputs can be connected.

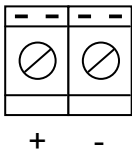


Figure 3: Input signal screw terminal

## 2.6 Setting the alarm repeat function (4)

The repetition of alarm messages can be adjusted with the help of a jumper. The alarm can be repeated every 1.5; 3; 6; 12; 24 or 48 hours. Selecting "None" disables the repeat function.

The pin marked with "Test" has no function during operation. It is merely used to test the SMS-Box during production.

## 3 Commissioning and configuration

### 3.1 Software installation

#### 3.1.1 PC system requirements

- Operating system: Windows 2000, XP, VISTA or Windows 7
- At least 4 MB free hard disk space
- One free USB port

### 3.1.2 USB driver installation

To install the USB driver for the GSM module and the control software for the PC insert the supplied CD and follow the installation instructions.

Open the subdirectory labelled "Driver-Treiber" > "englisch" on the CD and run the programme "FAFNIRSMSBoxVCPIInstaller.exe". If necessary, change the installation directory (Installation Location) by clicking "Change Install Location..." and then press "Install" to begin the installation process.

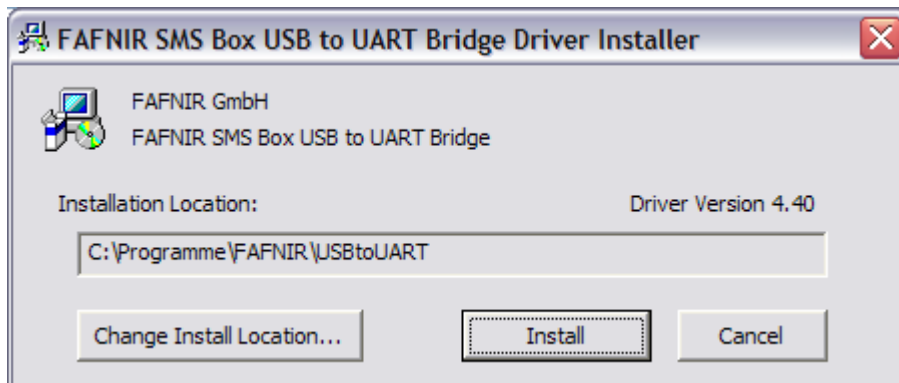


Figure 4: FAFNIR SMS-Box USB to UART Bridge Driver Installer

Please wait while the programme is being installed. This process may take several minutes. During installation you will be asked whether the driver should be installed despite it not passing Windows Logo testing. Please confirm these messages with "Continue Installation".

The Windows Logo testing message may need to be confirmed on several occasions.

When installation is complete you will receive a request to restart the computer or the following message depending on your computer and version of Windows.

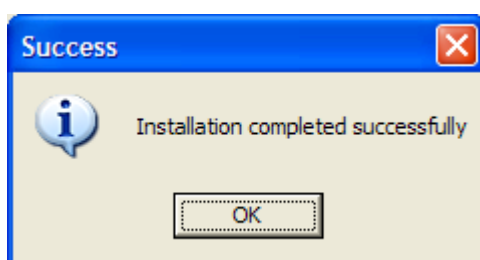


Figure 5: Success message

### 3.1.3 Connecting your PC to the SMS-Box



The SIM card should not be inserted into the SMS-Box prior to configuration! Otherwise it can block the SIM card. A blocked SIM card can only be unlocked in a mobile phone by using the PUK (super-PIN).

- Switch on the power supply to the SMS-Box
- Connect the SMS-Box to your PC by using the USB cable

Windows usually detects the new device and searches for suitable drivers.

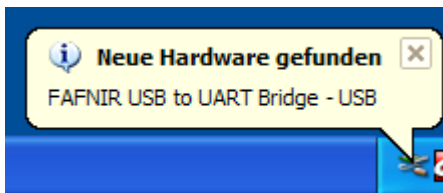


Figure 6: "Found New Hardware" message

#### Installing the driver for the SMS-Box

If Windows does not automatically allocate the drivers for the device, the Windows wizard will appear. Select the following settings and confirm by pressing "Next>":

- "No, not this time"
- "Install the software automatically (Recommended)"

After you have confirmed the Windows Logo testing messages with "Continue Installation", Windows will install the driver for configuring the SMS-Box.

#### Installing the port driver

As the driver for the SMS-Box is installed initially, followed by the port driver, this process must be repeated a second time. Please proceed as described in the previous step "Installing the driver for the SMS-Box".

## 3.2 FAFNIR SMS-Config

To install the software “FAFNIR SMS-Config” run the installation file “FAFNIRSMSConfig <version>.exe” from the supplied CD and follow the on-screen instructions. During the installation process you will have the option of creating a desktop shortcut to the FAFNIR SMS-Config software.

### 3.2.1 Configuration with FAFNIR SMS-Config

 **No SIM card should be inserted during the initial configuration process.**

The SMS-Box should be supplied with power and the USB cable should be connected to the PC.

- If you want to change an existing SIM card, disconnect the unit from the power supply and remove the old SIM card (see section 3.3), then initiate a new configuration process without a SIM card as described below. The new SIM card should only be inserted when the configuration process is complete.
- If subsequent changes to the configuration are required, it must be ensured that the correct PIN was entered during programming.
- Launch the software “FAFNIR SMS-Config”.

### 3.2.2 Settings

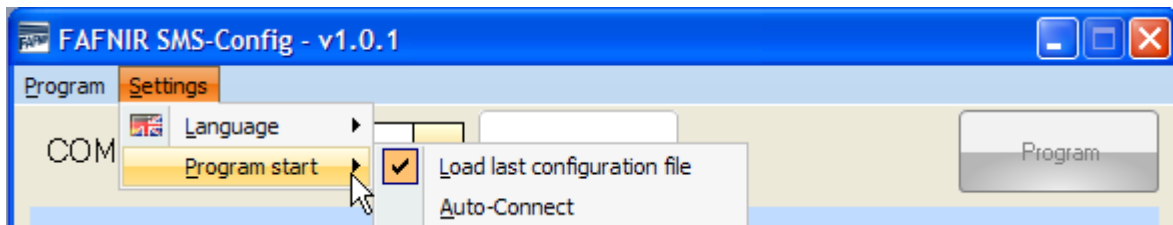


Figure 7: Settings

The following options are available under the “Settings” menu.

- Language: German or English
- “Program start” – “Load last configuration file”:  
Loads the last opened configuration file at startup.
- “Program start” – “Auto-Connect”:  
Automatically connects to the last selected port at startup.

### 3.2.3 Selecting the port

The USB driver assigns the next free serial port (COM port) to the SMS-Box. This port must be specified when configuring the SMS-Box. This can be determined by accessing the Device Manager and selecting “Ports (COM LPT)”. Please make a note of this port.

You can open the Device Manager as follows.

- Windows XP:
  - Start > Control Panel > System
  - "Hardware" tab
  - "Device Manager" button
- Windows VISTA, Windows 7
  - Start > Control Panel > System and Maintenance > System
  - Click on "Device Manager" on the left-hand side

The name of the SMS-Box is "FAFNIR USB to UART Bridge – COM (COM <n>)", whereby <n> corresponds to the number of the COM port. Please note that this SMS-Box entry will only be displayed if the SMS-Box is connected and switched on.



Figure 8: COM Port display

If "FAFNIR USB to UART Bridge" is not displayed, please close the Device Manager. The green Power LED (see Figure 1) must be illuminated. The SMS-Box must be connected to your PC via the USB cable. If necessary, the USB driver may need to be reinstalled (see section 3.1.2).

### 3.2.4 Connecting and disconnecting

First select the identified port from the "Port" drop-down menu and then click "Connect". The button designation then changes to "Disconnect" (clicking the button again disables the connection to the SMS-Box). If the respective port is not available for selection, it indicates that the configuration programme was started before the SMS-Box was connected to the PC; in this case please close and then restart the configuration programme.

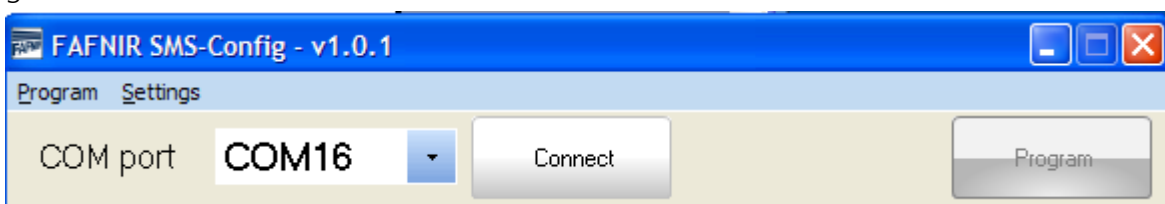


Figure 9: Connection

### 3.2.5 SMS-Box settings

The SMS-Box is configured via the tabs in the programme's main window.

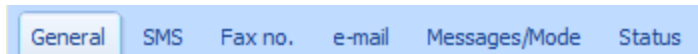


Figure 10: Tabs

#### “General” tab

This tab contains all of the SIM card settings as well as the station name.

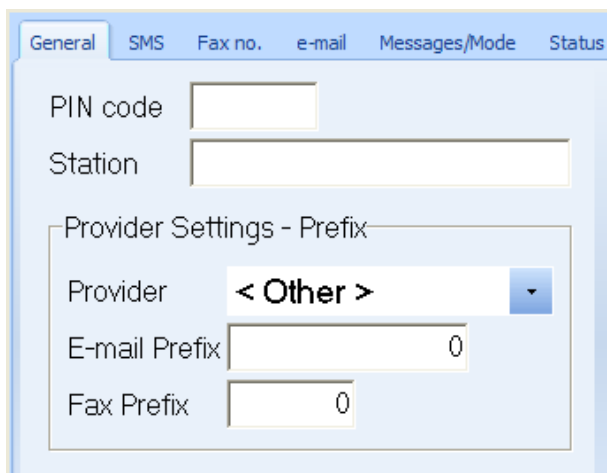


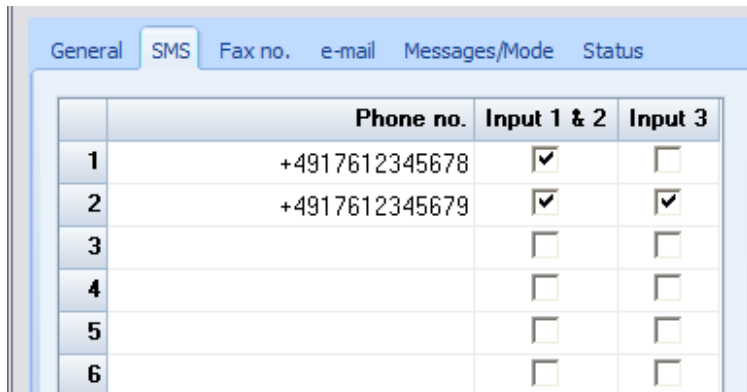
Figure 11: “General” tab

Enter the four digit PIN code of the SIM card used for the SMS-Box and select the mobile service provider of the SIM card here. This selection is currently restricted to German mobile service providers. The correct choice of mobile service provider is necessary to ensure the alarm messages can also be forwarded by fax or e-mail. In order to use the fax and e-mail services they must be supported by your SIM card.

If your mobile service provider is not listed here, or the SMS-Box is being used outside Germany, you can select “<Other>” to change the prefix settings manually. The prefix settings concern a number which must be placed in front an SMS in order for it to be sent as an e-mail or fax. If necessary, look up the correct numbers in your contract documents or contact your mobile service provider for information.

The station name should clearly identify the SMS-Box and it should not exceed 16 characters. It forms part of the message which is sent as an SMS, e-mail or fax.

## “SMS” tab



	Phone no.	Input 1 & 2	Input 3
1	+4917612345678	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2	+4917612345679	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3		<input type="checkbox"/>	<input type="checkbox"/>
4		<input type="checkbox"/>	<input type="checkbox"/>
5		<input type="checkbox"/>	<input type="checkbox"/>
6		<input type="checkbox"/>	<input type="checkbox"/>

Figure 12: “SMS” tab

The mobile numbers that are to receive an SMS message in the event of an alarm are to be entered under the SMS tab. The first two inputs are assigned to a group, thereby ensuring that alarms generated at one of the two inputs are sent to the same group of people. The third input can be configured independently.



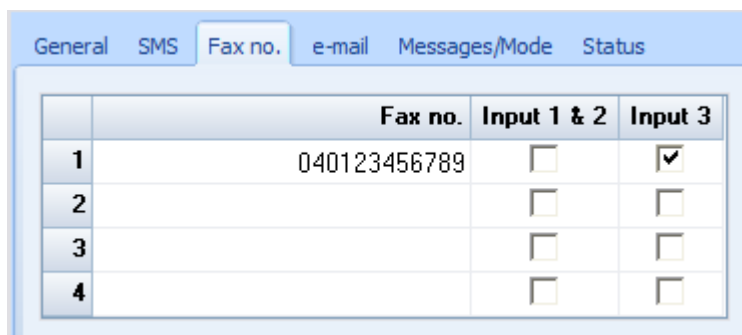
*Please note that mobile numbers must be entered using an international format.*

### Example:

The international format for a German mobile phone with the prefix 0176 and the number 12345678 is +4917612345678.

+49	Equivalent to the 0049 dialling code for Germany; the leading zeros are replaced by a single “+”
176	Mobile phone number prefix without the leading zero
12345678	Terminal number

## “Fax” tab



	Fax no.	Input 1 & 2	Input 3
1	040123456789	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2		<input type="checkbox"/>	<input type="checkbox"/>
3		<input type="checkbox"/>	<input type="checkbox"/>
4		<input type="checkbox"/>	<input type="checkbox"/>

Figure 13: “Fax” tab

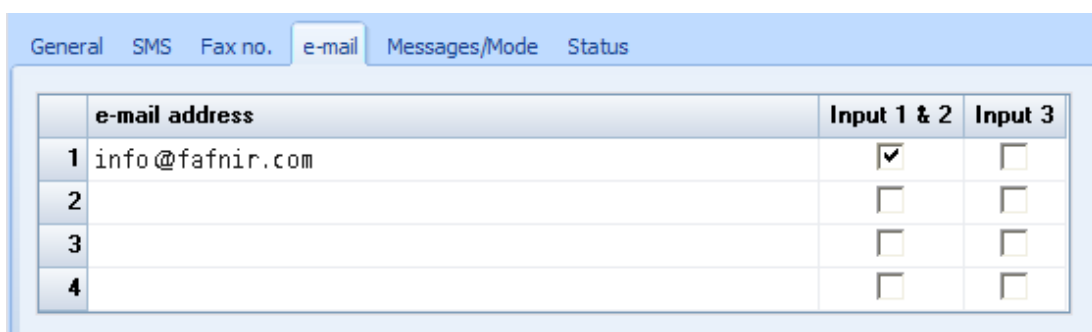
The fax numbers that are to receive a fax in the event of an alarm are to be defined under the Fax tab. The first two inputs are assigned to a group, thereby ensuring that alarms generated at one of the two inputs are sent to the same group of people. The third input can be configured independently.



*Faxes can only be sent via the national telephone network. The fax number consists of the area code and the fax number. International prefixes are not possible.*

A German fax number based in Hamburg, for example, would be: 040123456789.

### “e-mail” tab



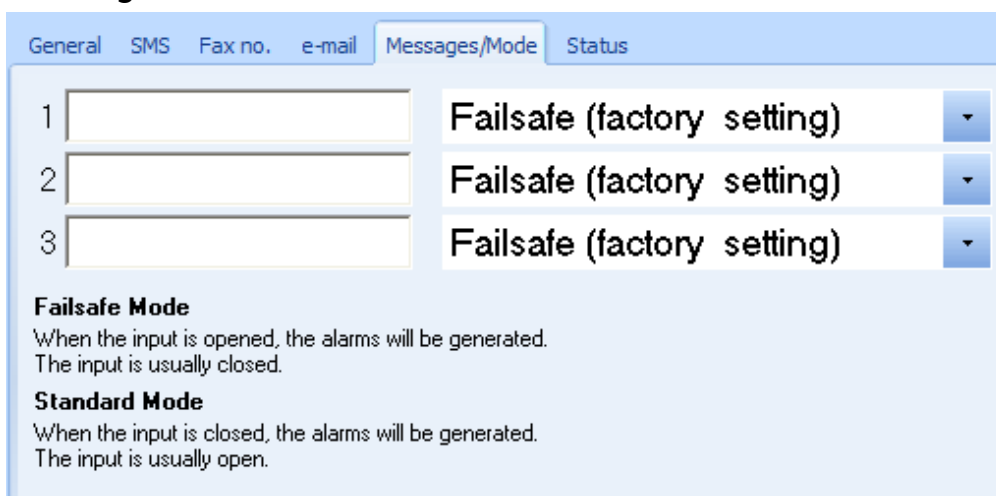
	e-mail address	Input 1 & 2	Input 3
1	info@fafnir.com	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2		<input type="checkbox"/>	<input type="checkbox"/>
3		<input type="checkbox"/>	<input type="checkbox"/>
4		<input type="checkbox"/>	<input type="checkbox"/>

Figure 14: “e-mail” tab

The addresses that are to receive an e-mail in the event of an alarm are to be defined under the e-mail tab. The first two inputs are assigned to a group, thereby ensuring that alarms generated at one of the two inputs are sent to the same group of people. The third input can be configured independently.

The maximum number of characters for an e-mail address is limited to 35.

### “Messages/Mode” tab



1  Failsafe (factory setting) ▾

2  Failsafe (factory setting) ▾

3  Failsafe (factory setting) ▾

**Failsafe Mode**  
When the input is opened, the alarms will be generated.  
The input is usually closed.

**Standard Mode**  
When the input is closed, the alarms will be generated.  
The input is usually open.

Figure 15: “Messages/Mode” tab

Messages can be assigned to the inputs in fields 1...3. These form part of the message that is sent as an SMS, fax and/or e-mail in the event of an alarm. Up to 16 characters are possible.

Two modes are available for each input:

Failsafe Mode (factory setting)	Alarms are generated when the input is opened. The input is closed during normal operation.
Standard Mode	Alarms are generated when the input is closed. The input is open during normal operation.

Check whether the contact you have connected to the SMS-Box is open or closed in normal operation (see section 3.4).

Please note that in the event of multiple assignment of the inputs only one alarm message will be generated.

### “Status” tab

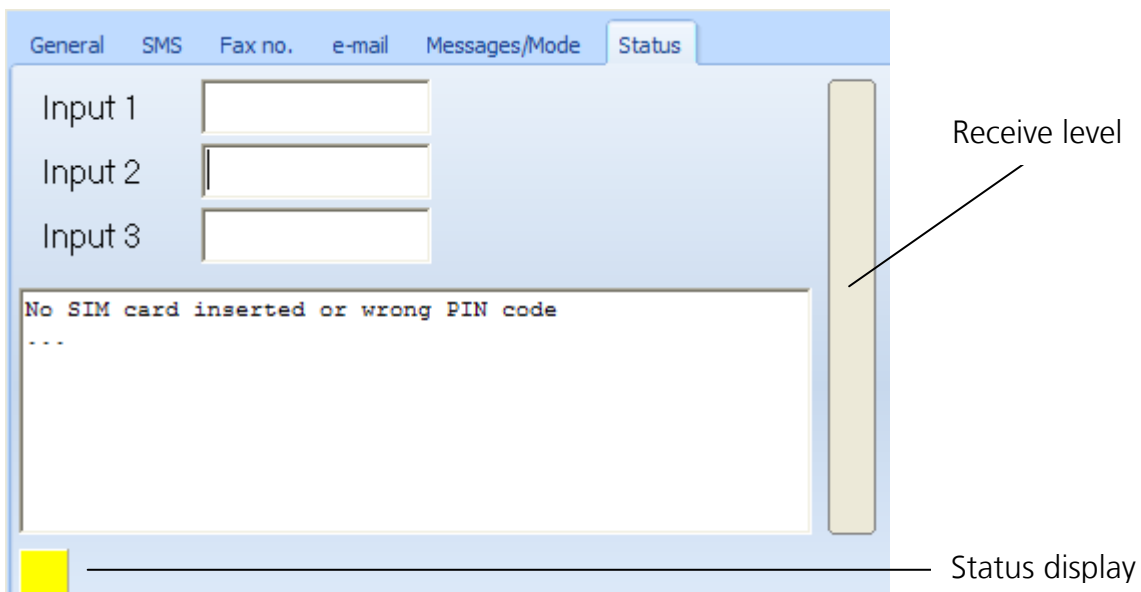


Figure 16: “Status” tab

The text field provides information about the current status of the connected SMS-Box. This message informs you that no SIM card has been inserted.

Now save the settings by selecting “Program -> Save As”. The configuration can be imported at a later date by selecting “Program -> Open” and it can also be used to configure other SMS-Boxes.

**⚠ The storage location should be selected so that the backup file will be available in the event of any changes made to the configuration.**

The receive level is displayed on the right-hand side. The communication status can be viewed at the bottom left of the screen.

If the settings are correct, the status alternates between green and yellow.

The colours mean the following:

Green	Data packets have been received correctly
Yellow	Waiting for a reply from the SMS-Box
Red	Communication aborted In this case restart the software and, if necessary, briefly disconnect the SMS-Box from the power supply. The software will then attempt to re-establish the connection.

### 3.2.6 Transferring the configuration from FAFNIR SMS-Config to the SMS-Box

When all of the desired settings have been completed, the configured values can be transferred to the SMS-Box.

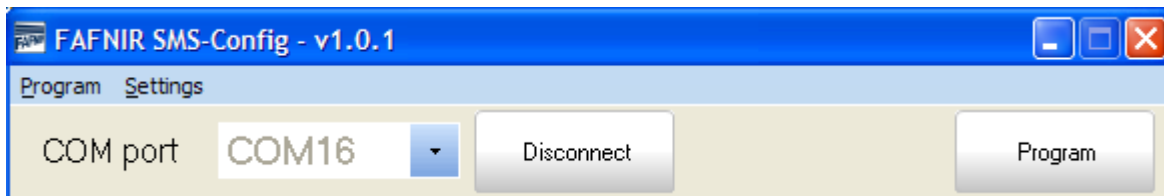


Figure 17: Program

When the “Program” button is pressed the software transfers the configuration to the SMS-Box. The progress of the programming function can be viewed in the status bar while the data is being transmitted.

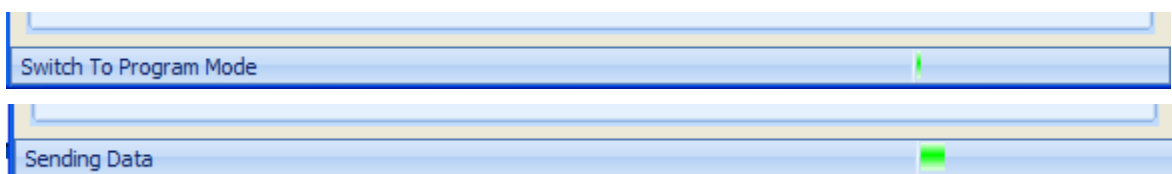


Figure 18: Status bar

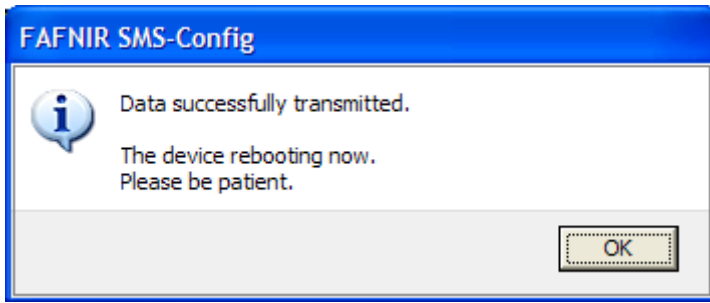


Figure 19: Success message

Upon completion you will receive a message about the success of the programming function.

Confirm this message by clicking "OK".

Wait briefly until the SMS-Box has rebooted.

### 3.3 Inserting the SIM card

- Disconnect the SMS-Box from the power supply
- Disable the connection in FAFNIR SMS-Config (status display = red)
- Carefully remove the GSM module from the pin line
- Push the SIM card holder gently towards its hinge (1)
- Raise the SIM card holder (2)
- Pay attention to the position of the bevelled corner (3) and insert the SIM card (4)
- Fold the card holder back into position and engage it in place by sliding it towards its hinge
- Carefully reinsert the GSM module onto the pin line. Make sure that the individual pins are inserted into the corresponding openings. The GSM module can be fixed firmly in place by exerting lightly pressure.

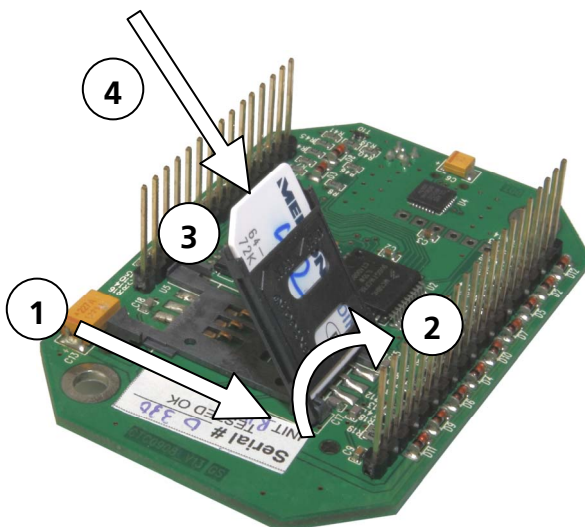


Figure 20: GSM module with SIM card holder and inserted SIM card



*If you would like the alarm to be repeated after a specified time, please insert the jumper into the desired time interval (4, see Figure 1). If you do not wish for the alarm to be repeated, please leave the jumper at "none" (factory setting).*



*For the commissioning procedure you will need an activated SIM card from any mobile service provider. The PIN for the SIM card must be four digits in length and the PIN request function must be enabled. (When the card is inserted into a mobile phone and the phone switches on, the PIN request screen must appear). Please use a mobile phone to see if you can send an SMS with the SIM card.*



**The PIN has been set in the FAFNIR SMS-Config software. If a SIM card has been inserted and the power supply is activated, the module tries to dial into the mobile network by using this PIN. If you have not configured the SMS-Box yourself, it will attempt to dial into the mobile network by using the factory-set PIN.**



**If the PIN is entered incorrectly three times in a row, the SIM card will be blocked! The card can then only be unlocked in a mobile phone by using the PUK (super-PIN).**

- Activate the power supply.
- The GSM Status LED (see Figure 1) flashes rapidly while the GSM module dials, and then approximately every 3 seconds after a successful dial-up.
- If the GSM Status LED remains off, it means either the PIN is incorrect or that mobile reception is poor. The reception level can be displayed with the FAFNIR SMS-Config software. If you are using a prepaid card, your credit may have run out. In order to locate the fault connect the SMS-Box to your PC and check the status message with the configuration software. You can insert the SIM card you are using for the SMS-Box into a mobile phone to check whether your SIM card is blocked or if there is sufficient credit.

### 3.4 Checking status messages after programming

Click on the "Status" tab to display the status of the inputs, the reception level and the connection.

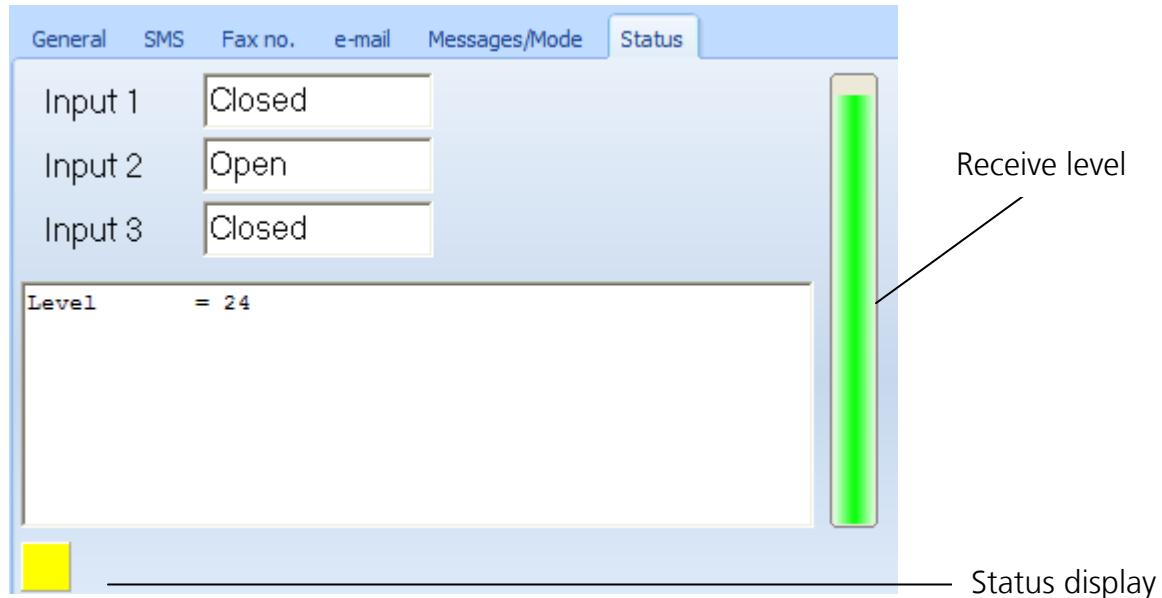


Figure 21: "Status" tab

The status of the inputs is either closed (Failsafe) or open (Standard). This status message informs you whether the output of the connected device is open or closed during normal operation. The Messages/Mode tab allows you to verify that the correct mode has been set.

All of the parameters, apart from the PIN, can also be changed while configuring the SMS-Box when the system is in operation. The system can be reprogrammed by clicking the Program button again.



**Save the configuration to your PC. The configuration cannot be exported from the SMS-Box at a later date.**



*After completing the programming function disconnect the USB cable and test the configuration by triggering an alarm (for example, by opening or closing the inputs used).*



**An alarm must be used to check the function of the SMS-Box after installation and in the event of periodic inspections.**

## 4 Changing the configuration

If you want to change the configuration, you have two options:

- (1) Disconnect the power supply, remove the SIM card (see section 3.3) and configure the SMS-Box (see section 3.2)
- (2) Start the software "FAFNIR SMS-Config" and load the saved configuration file into the programme, then connect the SMS-Box to your PC. Change the configuration and transfer the new settings to the SMS-Box (see section 3.2.6). Save this new configuration to your PC.

## 5 Maintenance and cleaning

The SMS-Box is maintenance-free!

You only need to use a clean, damp and soft cloth to clean the exterior of the housing.

## **6 Fault diagnostics**

The SMS-Box has several LEDs which help in diagnosing problems (see Figure 1).

### **6.1 Power LED**

The green Power LED (see Figure 1) indicates whether the SMS-Box is being supplied with power. The Power LED illuminates continuously when the auxiliary power is switched on.

### **6.2 GSM Status LED**

If the GSM Status LED (see Figure 1) flashes in 3 second intervals, it indicates that there is a connection to the mobile network. If the LED does not flash, please check the reception quality by holding a mobile phone (which has a SIM card from the same mobile service provider) directly next to the SMS-Box. If the reception on your mobile phone is good, then the SMS-Box must be restarted by briefly disconnecting its power supply.

If you are using a prepaid card, your credit could have run out or the card could have expired.

If the SIM card has been blocked by entering an incorrect PIN, it must be unlocked (see section 3.1.3) and the SMS-Box must be reconfigured.

### **6.3 Incorrect PIN**

Given the large number of SIM cards that are available on the market from various mobile service providers, it is possible for the message "Incorrect PIN! Waiting for data" to appear in the status window despite your PIN being set correctly and the configuration being properly transferred. If this occurs, please use a card from another mobile service provider, make the necessary changes to the configuration in accordance with the instructions and test the GSM module again.

### **6.4 Alarm repeat function**

To set the alarm repeat function see section 2.6.

If a new alarm message is generated at another input before the set time has expired, the alarm repeat function will start again. This will extend the time until the next alarm.

## 7 Technical data

Connection	<ul style="list-style-type: none"> <li>• 3 potential-free switches or transistor outputs (the SMS-Box supplies 3.7 V; max. 10 mA)</li> </ul>
Auxiliary power	<ul style="list-style-type: none"> <li>• 230 VAC <math>\pm</math>10 %, 50 -60 Hz, 5 VA</li> </ul>
Temperature range	<ul style="list-style-type: none"> <li>• 0 °C to 40 °C</li> </ul>
Dimensions	<ul style="list-style-type: none"> <li>• H 60 x W 180 x D 130 [mm] (excluding cable glands)</li> </ul>
Housing protection type	<ul style="list-style-type: none"> <li>• IP66</li> </ul>
Communication	<ul style="list-style-type: none"> <li>• 1 x mini USB (connection for configuration)</li> </ul>
Supplied accessories	<ul style="list-style-type: none"> <li>• USB cable</li> <li>• Programming software</li> </ul>
Required accessories (not supplied by FAFNIR)	<ul style="list-style-type: none"> <li>• Activated SIM card</li> </ul>
System requirements for the configuration software	<ul style="list-style-type: none"> <li>• Operating system: Windows 2000, XP, VISTA, Windows 7</li> <li>• At least 4 MB free hard disk space</li> <li>• One free USB port</li> </ul>
GSM module	<ul style="list-style-type: none"> <li>• Quad GSM Band: 850, 900, 1800, 1900 MHz Multi-band aerial integrated in the housing</li> </ul>
Alarm message	<ul style="list-style-type: none"> <li>• ID of the SMS-Box: 16 characters</li> <li>• Alarm message: 16 characters</li> <li>• Alarm messages can be sent <ul style="list-style-type: none"> <li>- via SMS to up to 12 different mobile numbers</li> <li>- via fax to up to 4 different fax numbers</li> <li>- via e-mail to up to 4 different e-mail addresses</li> </ul> </li> <li>• Configurable alarm repeat intervals: none, 1.5; 3; 6; 12; 24 and 48 hours</li> </ul>

## 7.1 List of figures

Figure 1: SMS-Box (opened) .....	7
Figure 2: Auxiliary power screw terminal .....	8
Figure 3: Input signal screw terminal .....	8
Figure 4: FAFNIR SMS-Box USB to UART Bridge Driver Installer .....	9
Figure 5: Success message.....	9
Figure 6: "Found New Hardware" message.....	10
Figure 7: Settings.....	11
Figure 8: COM Port display.....	12
Figure 9: Connection .....	12
Figure 10: Tabs .....	13
Figure 11: "General" tab .....	13
Figure 12: "SMS" tab .....	14
Figure 13: "Fax" tab .....	14
Figure 14: "e-mail" tab.....	15
Figure 15: "Messages/Mode" tab.....	15
Figure 16: "Status" tab.....	16
Figure 17: Program .....	17
Figure 18: Status bar .....	17
Figure 19: Success message.....	18
Figure 20: GSM module with SIM card holder and inserted SIM card .....	18
Figure 21: "Status" tab.....	20