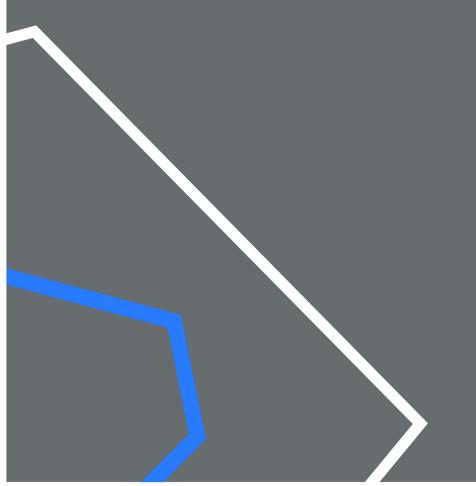
OPERATING INSTRUCTIONS GSM ALARM





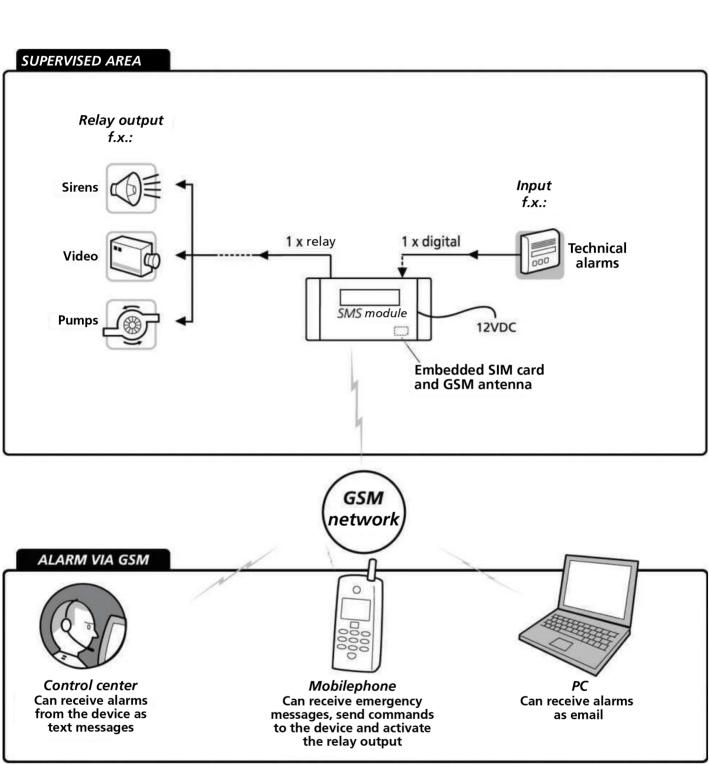








Feature Overview







True wireless monitoring - many applications

Arctiko SMS module is a flexible monitoring device - also for monitoring in difficult circumstances. The device is easy to install. Use of the alternative internal battery or a 12VDC power supply is all that is needed. Programming and configuration can be made from an ordinary mobile phone.

How the SMS module works

Description



Arctik SMS module

The SMS module can receive alarms from 1 input. The device then transmits the alarm via GSM network. The alarm comes within a few seconds and displayes on, f.ex. mobile phone (s) or PC.

Coding / setup or transcoding SMS Module is also from mobile phone and so from here you can send commands to the device for activation or deactivation of the external device as sirens, cameras, pumps, el. like, in the surveillance area.

SIM card is inserted in the SMS module and connected to a conventional power supply in 12DC. No additional installations are necessary.

Alternatively, the SMS module is supplied with its own internal battery, so that the module can send a message, at for example power failure.



Input / Output

The SMS module can receive alarms from an external device. The possibilities are extensive.

The device can simultaneously manage a unit alarm relay for instance transmission of alarms to CTS or noisemaker.



Alarmreception

The SMS module can send alert messages to 25 different mobile phones, PCs or to a call center. The messages are sent as SMS messages or emails.

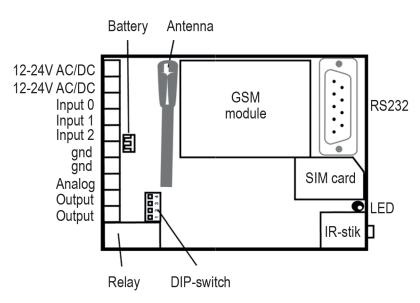




Installation of Arctik SMS Module

How to:





Note: The position of the SIM card can be different on the PCB board.

Relations etc.

The SMS module has 1 output and 1 input.

1 Mount the enclosed plugs in the controller.

Preparation of the SIM card

The SMS module shall be provided with its own SIM card to send and receive messages on the GSM network. Prepare your SIM card in a common GSM phone:

2 Insert the SIM card to be used in a GSM phone (remember that the phone must be off!).

3 Check that the SIM card's PIN number is set to 1234 (standard for most carriers). If not, set the card's PIN code 1234.

Preparation of the SMS module

4 Open the SMS module by removing the 4 screws on the back. NB! The unit must be off!

5 Take the SIM card out of your mobile phone and mount it in the device. Remember to turn the SIM card correctly with the bevel edge outwards.

6 Ensure that any input and relay output is connected correctly and fit the front panel of the device again.

7 Connect the device to a standard 12VDC power supply or battery. Wait approx. 10 seconds while the device establishes contact with the GSM network. When the LED on the device flashes the unit is ready.

Overview of input and output:

SMS module contains 1. relay output 1. input.

Output

The exit is a potential relay, which are broken or plugged using instructions for the device. By booting the relay end is broken. Two screw terminals provides access to the relays. See figure.

Spec: Max DC Voltage: 30VDC, 0.5 A.

Input

Activation is by a short circuit between the screw terminals.Removing the short circuit disables the input. In both cases an alarm is despatched from the device.See figure.

Spec: There may not be printed voltage on the

screw terminals!!

Power ex. battery:

12V: 12 VDC ± 10%, 2mA





Coding / setup of the SMS module from mobile phone.

If a GSM mobile phone is being used to setup the configuration is being sent as SMS messages. What is being sent to the device is actually a text message where the first 4-digit password is followed by a command and possibly additional text - like this:

1234 A0 PUMP ON

Means intervals between the commands individual parts

Example

The following example shows a simple configuration of the SMS module, which includes change of password, creation of one alarm receiver (mobile phone) and inputting the alarm text.

1 Changing the password

At the start of the SMS module the password is 1234 This can be replaced with a new password of your choice. Enter and send the following SMS - message:

1234 N0 +452222222 4488

1234 is the current password to the site. N0 is the command that is used to change the password. The phone number +45222222222 is the SMS modules own phone number. 4488 is the new password.

Note: Remember space " " between each command "part".

2 Create alert receiver

The SMS module must "know" where to send the alert messages to. The next step is therefore always the creation of alarm recipient (s). Enter and send the following SMS - message:

4488 N1 +4577777777

4488 is the new password to the site. N1 is the command that generates

1. alarm receiver.

The phone number +4577777777 is the number of the mobile phone to

receive the emergency messages.

Now the Arctiko SMS module is ready!

The above 2 commands are the only ones who is needed to make the device ready for emergency reception. More opportunities for further configuration is described in the examples below and in code statement

3 Coding of alarm text for input

This is how to encode the text to be sent when the input is broken:

4488 A0 PUMP ON

A0 defines "broken" text for entry.

This is how to encode the text to be sent when input 0 is connected:

4488 LO PUMP OFF

L0 defines "connected" text for entry.





Examples of emergency texts, Arctiko SMS module.

B0 4488 PUMP ON Alarm messages received when the input is broken.

S0 4488 PUMP OFF Alarm messages received when the input connected. 4488 is the

ID (identification number).

SMS messages

Alarm messages are sent as SMS messages to a mobile phone.

E-mail

If you wish to receive emergency messages by e-mail on a PC, enter the phone number that your teleoperator uses for e-mail/SMS messages (TDC is f.x. using "200"), followed by space and the e-mail address.

Example of instruction sent to the device, where the unit's password is 4488 4488 N1 200 BB@CENTRAL.DK:

Note: E-mail address can not exceed 29 characters long

Code Summary, Arctik SMS Module

Below is a list of all the codes available for the Arctiko SMS module. The codes must be used for programming from a GSM mobile phone.

Please note:

When sending commands to the SMS module, you must always start with the password (4 digits), followed by a space .

Password + command (2 characters) + possible text. Password and the first intervals are omitted in the code table below.

Configuring Arctik SMS module:

1234 N0 +4522222222 4488 Changes the existing password for the SMS module.

+4522222222 is the SMS modules telephone number. 1234 is the existing password, 4488 is the new password. Must be 4 digits.

1234 N0 +4522222222 4488 TEST Setting up the ID code to the SMS module. Sent with the alerts to

recipient. When there is no ID code selected the ID code is the same as the password. The ID code can be in contrast to the password be numbers and letters and must be 4 characters.

N1 +4577777777 Creates Alarm receiver No. 1 when the alarm is sent as SMS.

There are a total set up of 24 receivers. Same procedure for

recipients N2, N3......



L0

IN

ΙK

ΙF

JS

ΡI

OF

B₀

SO



N1 200 BB@CENTRAL.DK Creates Alarm receiver No. 1 when the alarm is sent by email. 200 is the telephonenumber the service provider uses. TDC uses "200". BB@CENTRAL.DK is the recipient's e-mail. There are a

total set up of 3 receivers. E-mail address can not exceed 29

characters long.

N₁ Deletes the alarm receiver No 1. Same procedure for recipients

N2, N3.

A0 TEKST By typing X0 forefront in the text indicates a filter at the entrance

> so that the alarm is first sent after 8 seconds. Input must be constant during this period to the emergency dispatch. If a filter

is used, a text must also be specified on the input.

L0 TEKST Encodes text to be displayed when the input is closed/completed.

Α0 Deletes text for input in open / broken condition.

Deletes text for input in the closed / connected state.

Power Saving mode. Modem is switched off after 5 min. and the

device can not receive SMS. If your device is connected to

external supply, the modem will always be on.

Power Saving mode. Modem is switched off after 5 min. but

started 5 min. once a day. If your device is connected to external

supply, the modem will always be on.

Normal mode. Modem is switched on all the time. Default Setting.

A message is sent to recipients when external supply is

connected / removed. (POWER OK / POWER FAILURE)

No message to the recipients when the external supply is

connected / removed. Default Setting.

Arctiko SMS module deletes all its settings. Beware!

Commands to Arctiko SMS module via SMS:

ON Connects SMS module; alerts sent to recipients. Default Setting.

Disconnecting SMS module; alarms are not sent to recipients.

Breakes relay output.

Connects relay output.



OM



Author / Status Arctiko SMS module:

OK The SMS module returns a message on the current output power

in % on the GSM network. (If the power is not higher than 25%,

an external antenna should be used).

The SMS module returns the version number.

The following is a list of typical failures by Arctik SMS module.

Error Description: Cause: Solution:

Set the SIM cards pin code to "1234" By booting the device A wrong pin code is used

flashes rapidly: for the SIM card. and restart the device.

The SIM card does Check if the SIM card is mounted The device can not send the alert: not work. correct. Place the SIM card in a

mobile phone and check whether you

can both send and receive SMS

messages.

No voltage on the device. Check if the red LED is lit. If not, the

correct power supply must be used.

Determine whether the correct Wrong recipientnumber.

> recipient phonenumber is used and whether the number used for SMS is

a mobile phonenumber.

Connect the device to the PC and No GSM coverage.

> send the instruction "OK." The GSM signal strength is returned and must

be greater than 25%.

The device is not respon-A wrong password is used for the ding to configuration.

device. Take the SIM card out of the

device and change it in a GSM mobilephone to "1234". Remember that the pin code must be activated.

The device is busy. Check if the red LED is lit. In that

> case the unit is busy. Wait until the red LED turns off or restart the

device.











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