

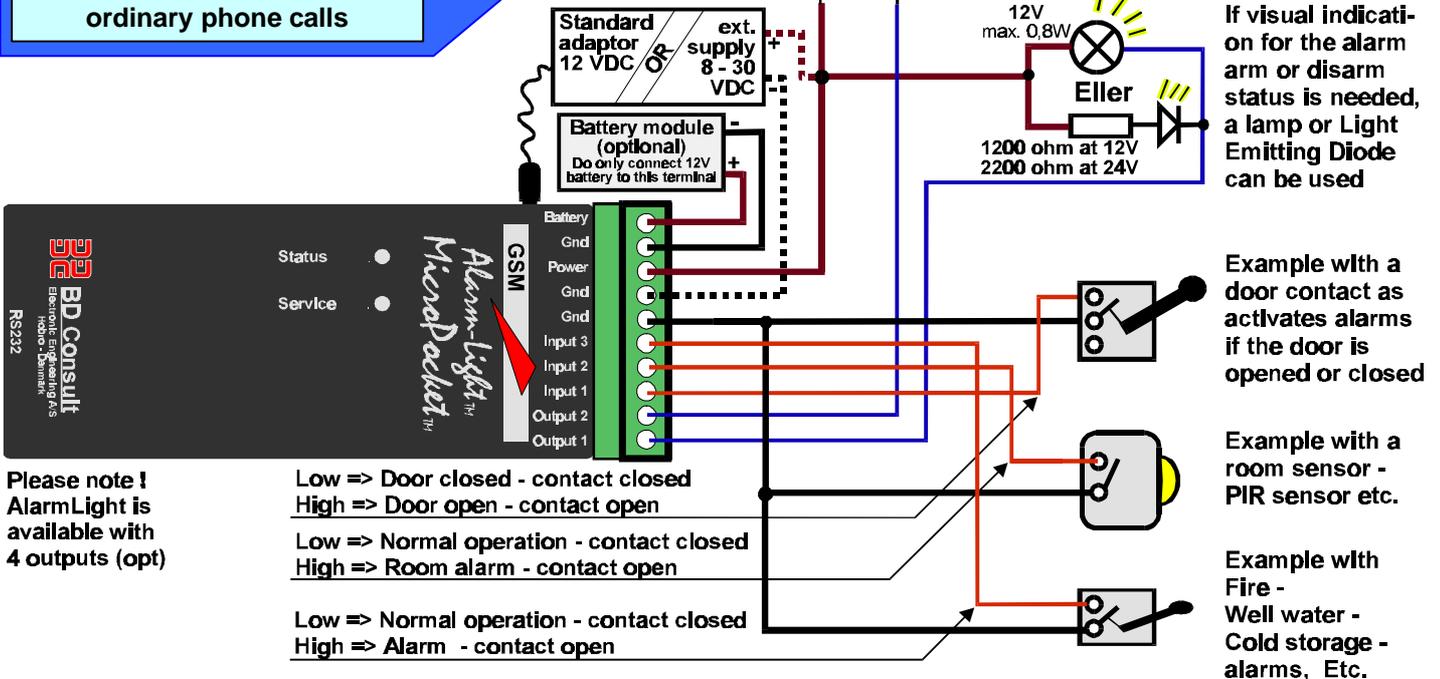
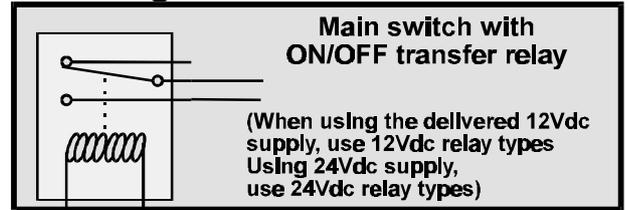
Example with:
**REMOTE HEATING CONTROL
IN SUMMER HOUSE/RESIDENCE**

Combined with burglar alarm system

Switch on the heating in your summerhouse,
using an SMS or making an ordinary phone call

Receive alarms as SMS, or as
ordinary phone calls

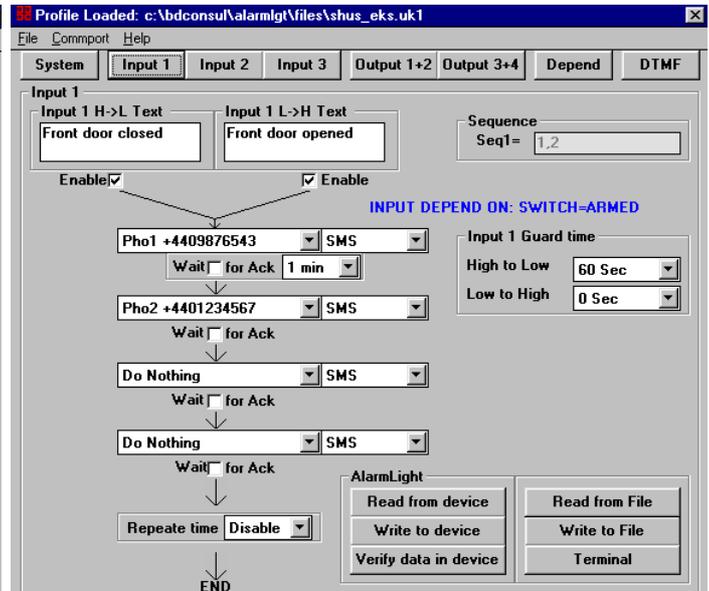
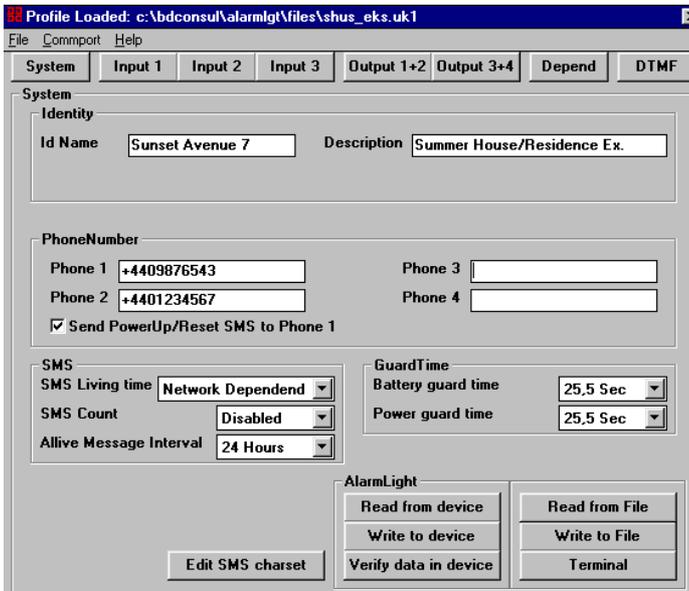
Heating control



Please note!
AlarmLight is available with 4 outputs (opt)

Programming suggestion:

With 2 alarm receivers, and with remote control via SMS or ordinary phone calls.



- > All messages have the ID: Sunset Avenue 7
- > Alarm receivers are: mobile Phone 1 and Phone 2
- > Initial Power-on message is send to Phone 1 as SMS at start-up.
- > SMS living time is based on the GSM network. Can be set down to 5 minutes.
- > No SMS send counter activated. Used for prepaid SIM cards to send SMS counter alarm at maximum decided SMS count.
- > I'm alive message will be send every 24 hours. Can be disabled or set to another value.
- > When battery powered, a power failure message will be send when the main have been lost for 25 sec. and battery low message when the battery capacity has been below 15% continuously for 25 sec.

- > INPUT 1 is only active if the internal "ARM SWITCH" is armed.
- > If Input 1 change from low to high (open switch), the SMS message "Front door opened" is without delay send to Phone 1 and Phone 2.
- > If Input 1 change to Low (switch closed) and stays low continuously for 60 sec. the SMS message "Front door closed" will be send to Phone 1 and Phone 2
- > There are no wait for acknowledge from mobile Phone 1 (dummy or empty SMS reply) before the same alarm is send to mobile Phone 2.
- > If the alarm stays active (door opened), the alarm is not repeated with fixed "Repeat time" intervals.

Input 2

Input 2 H->L Text: -Normal operation, no PIR detection

Input 2 L->H Text: Room ALARM from input 2 detector

Sequence: Seq2= 1,2

Enable: Enable Enable

INPUT DEPEND ON: SWITCH=ARMED

Pho1 +4409876543 SMS

Wait for Ack 1 min

Pho2 +4401234567 SMS

Wait for Ack

Do Nothing SMS

Repeate time: Disable

AlarmLight: Read from device, Write to device, Verify data in device

Read from File, Write to File, Terminal

- > INPUT 2 is only active if the internal "ARM SWITCH" is armed.
- > If Input 2 is activated (open switch), the SMS message "Room ALARM from input 2 detector" is without delay sent to Phone 1 and Phone 2.
- > No SMS message will be send when Input 2 change to Low (switch closed) and stays low continuously for 60 sec., but input 2 will hereafter be ready to send new alarms if Input 2 again is activated.
- > There are no wait for acknowledge from mobile Phone 1 (dummy or empty SMS reply) before the same alarm is send to mobile Phone 2.
- > If the alarm stays active (room sensor active), the alarm is not repeated with fixed "Repeat time" intervals.

Input 3

Input 3 H->L Text: Fire,Well water,Cold storage normal

Input 3 L->H Text: Fire,Well water,Cold storage alarm

Sequence: Seq3= 1VS,2VS

Enable: Enable Enable

Pho1 +4409876543 SMS+VOIC

Wait for Ack 1 min

Pho2 +4401234567 SMS+VOIC

Wait for Ack

Do Nothing SMS

Repeate time: Disable

AlarmLight: Read from device, Write to device, Verify data in device

Read from File, Write to File, Terminal

- > INPUT 3 is always active and not dependent on the "ARM SWITCH".
- > If Input 3 is activated, the SMS message "Fire,Well water,Cold storage alarm" is without delay sent to Phone 1 and Phone 2.
- > If Input 3 has been deactivated (low) continuously for 60 sec. the SMS message " Fire,Well water,Cold storage normal" will be send to Phone 1 and Phone 2
- > Phone 1 and Phone 2 will beside the SMS alarm receive an ordinary phone call. When taking the phone, alarm tones will be announced as attention for that you have received an alarm via SMS
- > The call should not be acknowledged with # - "Wait f ack." is not active.

Output 1 + 2

Output 1 Commands

Activate Output (Set low)

Command: 01=1

Alternative:

Deactivate Output (Set high)

Command: 01=0

Alternative:

Flash Output (Active 1 sec.)

Command: 01

Alternative:

Output 2 Commands

Activate Output (Set low)

Command: 02=1

Alternative: WARM

Deactivate Output (Set high)

Command: 02=0

Alternative: COLD

Flash Output (Active 1 sec.)

Command: 02

Alternative:

Output 1 Initial settings

Activate (Set low)

Deactivate (Set high)

Flash Output (Active 1 sec)

Output 2 Initial settings

Activate (Set low)

Deactivate (Set high)

Flash Output (Active 1 sec)

- > At initial start-up, output 1 and output 2 will be deactivated (connected relays to the outputs will not be activated).
- > If an SMS with the text "WARM" is send to the AlarmLight, output 2 will be activated since the alternative command to activate output 2 is user programmed to be the command "WARM".
- > If an SMS with the text "COLD" is send to the AlarmLight, output 2 will be deactivated since the alternative command to deactivate output 2 is user programmed to be the command "COLD".

Output 3+4

Output 3 Commands

Activate Output (Set low)

Command: 03=1

Alternative:

Deactivate Output (Set high)

Command: 03=0

Alternative:

Flash Output (Active 1 sec.)

Command: 03

Alternative: START

Output 4 Commands

Activate Output (Set low)

Command: 04=1

Alternative:

Deactivate Output (Set high)

Command: 04=0

Alternative:

Flash Output (Active 1 sec.)

Command: 04

Alternative: STOP

Output 3 Initial settings

Activate (Set low)

Deactivate (Set high)

Flash Output (Active 1 sec)

Output 4 Initial settings

Activate (Set low)

Deactivate (Set high)

Flash Output (Active 1 sec)

- > At initial start-up, output 3 will be deactivated and output 4 will be activated for 1 second.
- > If an SMS with the text "START" is send to the AlarmLight, output 3 will shortly be activated for 1 sec. since the alternative Flash command for output 3 is user programmed to the command "START".
- > If an SMS with the text "STOP" is send to the AlarmLight, output 4 will shortly be activated for 1 sec. (Alt. Flash cmd for output 4 is "STOP"). Output 3 and 4 is optional!

Input Dependency

Input 1 depends on: SWITCH=ARMED

Input 2 depends on: SWITCH=ARMED

Input 3 depends on: NOT DEPENDED

Arm / Disarm Commands

Set internal switch (ARM)

Command: ARM

Alternative: ON

Clear internal switch (DISARM)

Command: DISARM

Alternative: OFF

DTMF Function 0

* = ARM # = Disarm

SMS Text when Armed

Burglar alarm ARMED

Send SMS back

SMS Text when Disarmed

Burglar alarm DISARMED

Send SMS back

Route internal ARM status to output 1

ARM= 19,19,00

ARMB= 91

AlarmLight: Read from device, Write to device, Verify data in device

Read from File, Write to File, Terminal

- > Input 1 and 2 are made dependent on the internal status named ARM SWITCH, used to ARM or DISARM the inputs as are dependent.
- > Input 3 is not made dependent on other signals, and is always ready.
- > The ARM Switch status can be activated with the SMS text "ON", as this text is user programmed as the alternative ARM command.
- > In the same way, the ARM switch can be deactivated sending the SMS message "OFF" to AlarmLight, as "OFF" is alternative command.
- > When the ARM SWITCH changes status, an SMS is replied indicating the new status: "Burglar alarm ARMED" or "DISARMED".
- > For this example the ARM Switch status is routed to output 1, enabling a visual indication for the ARM status using a lamp or a LED.
- > Making an ordinary phone call to AlarmLight, the ARM status can be Armed or Disarmed via function 0, using the keypad * and #.

DTMF Control

Enable DTMF Control

Access

Restricted Access (Known numbers)

PinCode 1234 Enable Pin

DTMF Function 1

* Output 2 = 1

Output 2 = 0

Response: Output 2

F1= 05,06,02

DTMF Function 2

* Flash Outp.3

Flash Outp.4

Response: Input 3

F2= 07,10,07

DTMF Function 3

* No Function

No Function

Response: No Function

F3= 00,00,00

DTMF Function 4

* No Function

No Function

Response: No Function

F4= 00,00,00

AlarmLight: Read from device, Write to device, Verify data in device

Read from File, Write to File, Terminal

- > AlarmLight will answer normal phone calls, as the Enable DTMF Control" is activated.
- > For this example, calls to AlarmLight will be answered regardless of the caller is known or not by the AlarmLight, but requires the caller to type in a 4 digit pin code, here 1234.
- > When the Pin code is accepted, function 1 is automatically entered. If function 1 is active then a high frequency response tone will be heard, otherwise a low frequency tone will be announced. The tone response is for this example programmed to be output 2 status (Heating control).
- > In general for all functions then typing * result in an activation for the function, and # result in a deactivation. Function 1 is programmed to activated output 2 when a * is typed in, and to deactivate output 2 when a # is typed in from a pushbutton phone.
- > You can at anytime choose another function by typing in the wanted function number. Remember that the ARM Switch has function 0.