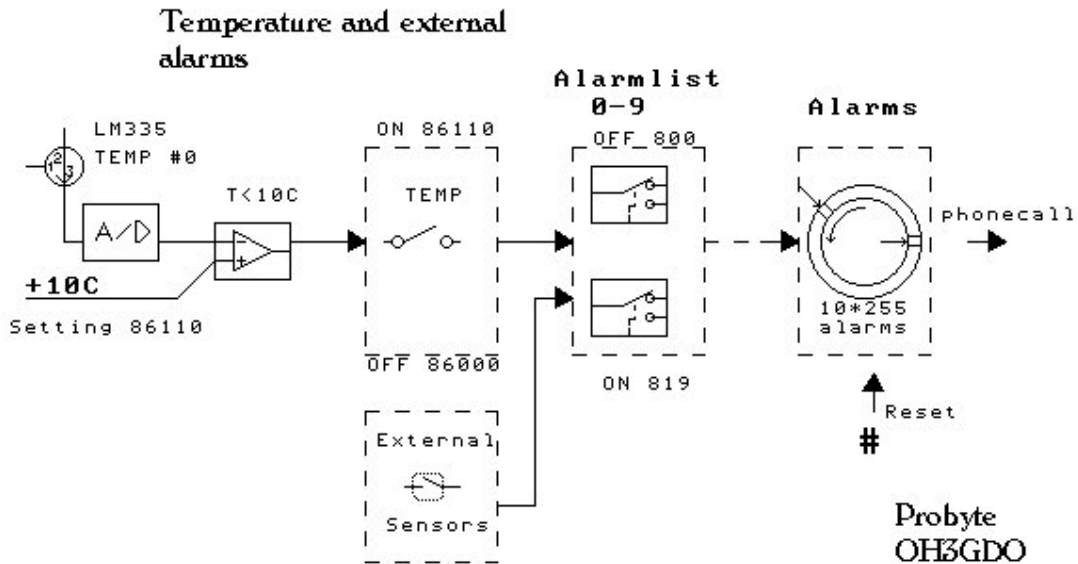


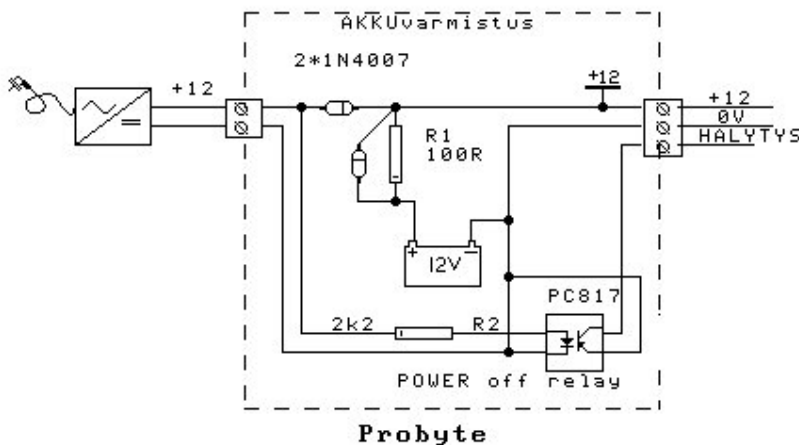
Probyte GSM RELAY

The manual for alarm usage.



The alarm types :

Type 1. A power loss has existed. The gsmrelay do not work without power. Adding a battery or UPS device. If there is a short time power loss like 2 hours. The alarm comes on after power is restored. Disable power off alarm with the command **838**. Enable power off alarm with the command **839**



Type 2. A low temperature alarm. Enable +20 C 86120. Disable 86000

Type 3.. A high temperature alarm Enable -20 C 87020. Disable 87000

Type 4. An external alarm. There is no disable function, open the input alarm connection.

All the alarm types works to all the phone numbers (maximum to 10, if enabled). Type number has nothing to do with alarm number.

The alarm function

- The alarm works when the alarm input close or open
- The alarm does not start in first minute after power off. This is intended for owner to leave the building.
- All the alarms can be connected on or off with one command
- There is no need for external temperature alarm sensor with internal temperature or power failure commands
- The alarm is based on phone reorganization on Nokia 3310 type phones.
- Ten alarms can be phoned to different phones until somebody opens the phone connection and press # button.
- If the alarms are not switched off (#-button), all the alarm groups are given 10 times between 10 minutes intervals.

General:

The terminal number 6 is external alarm input. It is provided with a 10k-pullup resistor to 5 V. The input is suitable for most general alarm devices like PIR sensors, the door magnets. The input contact must close or open for the alarm.

After the alarm a new input contact position is read to the device. If this contact change its state, the new alarm is send

the gsmrelay pushes the HF-button by a small relay. The phone waits sound. The gsm phone makes a sound to the phone. The phone makes a phone call the learned phone number.

The alarm number is stored to SIM card not to phone memory. You can change the phone number to alarm phone without teaching the number again. For example you cant teach all the numbers to your own phone and the later change numbers to final phones.

The teaching the alarms

The following is done to Nokia 3310 phone

Set HF-cable to the phone

Select Menu 6-1-6-1 (auto answer on)

1 Start GSMRELAY.

2 Connect a alarm a wire from terminal connector pin6 to terminal 8 (ground). In start wire can be open or closed.

3 Give the teaching command 820 to alarm number 0 alarm #1 is 821 etc. The yellow led starts to blink fast and gives a 30 alarms sounds which is teach to phone as alarm number #0.

4. Search from phone list the right phone number or name like "Myphone".

Menu/Phonebook Select /Search/"Myphone" Call, cancel the by a button C and select Voice tags. Select/Add voice tag.

Again press Add voice tag, Start

5. The phone listen the sounds and save this sound for alarm #0 or actually to the phone name "MyPhone" name, not the number.

6. If the first time does not succeed. The GSM relay give sounds again 30 times in 5-second interval. Stop the further alarms by pressing #.

The alarm is now ready for testing. .

Enabling and disabling alarms individually

The command 81x, 815 enable the alarm number 5. . 819 enable the alarm number 9.

The command 80x, 806 disable alarm #6. 809 disable alarm #9.

The relay test 831

All the relays goes on and off in sequence.

Which alarms are enabled or disabled?

Give the command 832.

The gsmrelay gives ten sounds in sequence.

The first short high note means that the alarm #0 is disabled. A low long note means the alarm # 0 is enabled.

What s the status f inputs 1-6?

Give the command 833.

The gsmrelay gives 6 sounds.

If the input is open a long low note is sounded otherwise a high short note.

Input 0 = alarm input RC.5 (pin 15)

Input 1 = pin RB.6 (pin 27)

Input 3 =pin MRLC (pin 1) (No reset pin is needed)

Input 4 = OSC1 pin (no external oscillator is need)

Input 5 = OSC2 pin(no external oscillator is need)

Testing the learned alarms one at time.

Give testing command 840 (for alarm #0). **The gsmrelay presses HF-button and gives the sound which is just teach for alarm #0,**

The alarms are disabled in one command.

850

The alarms are enabled in one command.

851

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Disable all the thermostats with one command

852

Enable all the thermostats with one command to 20 C

The temperature alarms

GSM-alarm works with the first internal sensor #0 (range -50. +99C)

Enable or disable thermostat function with 86xxx command

86MTT meaning

M is 1= positive temperature, 0 = negative temperature

TT = Limiting thermostat low value

Eg. 86105. If the temperature goes under +5 C degrees, the alarm is given as with external alarms.

Eg.86005. If the temperature goes under -5 C degrees, the alarm is given as with external alarms.

86000, no temperature alarm in use for low temperature alarms

After the setting the setting alarms is given by sounds as the temperature value

When the alarm is given is reset by power reset or giving the low limit value command again

So there is no continues alarms coming from the phone.

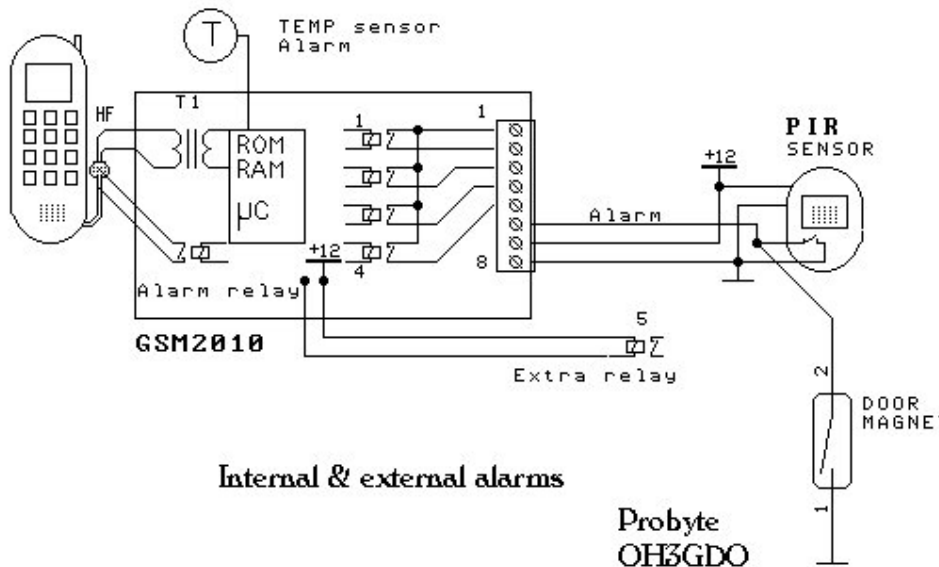
All the alarm and phone numbers are put to eeprom memory.

87MTT meaning

M is 1= positive temperature, 0 = negative temperature

TT = Limiting thermostat high value

If TT is 00, the high alarm is not used



Probyte Oy, Veisunkatu 17, 33820 Tampere 358-456012074