GC 055 A - GSM alarm

GC 055 A - The GSM alarm is configured as a simple home alarm with one control input, one delayed alarm loop, one alarm loop without delay, one permanently active loop, one output for status indication and one output for audible indication of the alarm condition. Control is also possible using Dallas access chips. By ringing you can control the internal relay switch, and the thermometer on the Dallas Bus controls one digital output. One input is used as a pulse counter.

1. List of accessories in the assembly

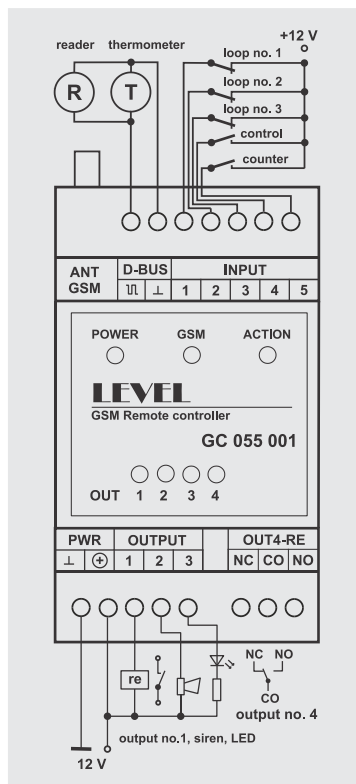| Item	Description
GC 055 011	GSM Unit
	GSM antenna 3dB, SMA, magnet, 5m cable

Optional accessories	
SA 012 830	Power adaptor 230V /10-14 VDC, 1,2A, na DIN (1.5 module)
ED 050 300	2x relay output for switching network appliances 230V / 5A
CB 170 020	Mini USB cable
ED 060 100	Temperature sensor (-40 to 130°C)
ED 060 500	Identification reader for Dallas chips
ED 060 550	Dallas indentification chip

2. Description of functions

For controlling (arm / disarm) input No. 4 (+12 V input 4 = disarmed, 0 V = armed). It is possible to control the alarm using an appropriate programmable keyboard or a concealed switch. Arming or disarming is possible using SMS. It can also be controlled with the use of up to 5 Dallas access chips.

Using inputs No. 1 and 2. you can connect PIR sensors or door contacts. Inputs are activated by disconnecting from +12 V. Input No. 1 has an entrance and exit delay of 30 seconds. Input No 3 is always active regardless of the state of the alarm and devices such as smoke or gas detectors can be connected to it. When an alarm is activated, the 1st and 2nd inputs are blocked for 3 minutes. Input No.5 can be used for coutning pulses on devices such as an electricity meter.

Output No. 2 is used to connect the siren for the audible indication alarm. Output No. 3 is used to connect the LED, which flashes quickly to indicate delayed entry or exit, flashes slowly to signal arming status and remains off when disarmed. Output No. 1 can be controlled with a temperature sensor connected to the Dallas bus. Output No. 4 (relay) can be controlled by calling the phone numbers of the SIM cards in the GC 055 unit. This option has up to ten phone numbers entered in the phone book of GC 055. The unit will reject the call to confirm reception of the command and will connect the output for 2 seconds (the connection time can be configured). Detection of power failure is possible when using the backup battery (eg, ED 075 001). The supply voltage must in this case be 14 V.

3. Configuration and inserting the SIM card

Configuration can be made from any mobile phone. Configuration SMS are sent to phone number of SIM card inserted in the GC 055 unit. The unit will confirm launching the command by sending an SMS message back to the sender of command. Before inserting the SIM card, disconnect the power to the GC 055 unit. Insert a suitable tool (small screwdriver) into the notches on the sides of the front panel to gently pry open the cover. Open the SIM card holder using slight pressure in the direction of the arrow (open). Place the SIM into the open door of the holder so that the notch on the SIM matches the recess in the base holder. Close the SIM card holder and secure with gentle pressure in the direction of the arrow (close). The SIM card must not be blocked with a PIN or the account frozen by the provider. It must also contain sufficient credit.

Each configuration SMS must include:

PASSWORD	Between 4 and 8 character security code (factory set to 1234)
Space	Space between password and command
COMMAND1	Command name
Space	Space between command and parameter
PARAMETER1	Desired value of the command you want to adjust

Example of SMS for setting a phone number to receive an alarm SMS: **1234   ASMS1 +420777666555**

- One SMS can contain up to four commands
- The GC 055 unit will inform you that the command has been launched by sending a confirmation SMS
- It is possible to send an enquiry about a command status by replacing the parameter with a question mark
- Deleting parameters (eg phone number) is done by replacing the parameter with a full stop

Text for SMS command	Description of command
Password PSW x	**Change password** x= new password (distinguish lower/upper case, 4 to 8 characters)
Password ASMS1 x	**Setting 1st recipient of alarm SMS** x= tel. number of recipient
Password ASMS2 x	**Setting 2nd recipient of alarm SMS** x= tel. number of recipient
Password ASMS3 x	**Setting 3rd recipient of alarm SMS** x= tel. number of recipient
Password ASMS4 x	**Setting 4th recipient of alarm SMS** x= tel. number of recipient
Password ACALL1 x	**Setting 1st recipient of alarm ringing** x= tel. number of recipient
Password ACALL2 x	**Setting 2nd recipient of alarm ringing** x= tel. number of recipient
Password CALLn x	**Setting phone number for activation of output n.4 by ringing** n= sequence number (1 to 10), x= phone number (international format e.g. +420…)
Password INFOSMS x	**Setting recipient of information SMS** x= tel. number of recipient (Info sms= low credit, disconnected power, monthly report, reports of failure / restoration of power and discharged battery backup))
Password TEXTn „x"	**Setting alarm SMS text** n= input number (1 to 5), x = SMS text (text must be in quotation marks)
Password TIME x	**Setting time and date in GC 055** x= hh:mm:ss dd-mm-yyyy
Password CALLON.SET.PERIOD x	**Setting time of connecting output No. 4 by ringing** x= time in s/10 (default value from production is 20 = 2s)
Password TRM x	**Setting address of Dallas temperature** x= 12 input number – temperature address
Password TEMP.MINVAL x	**Setting low temperature limit** (output No.1 is triggered) x= temperature in °C
Password TEMP.MAXVAL x	**Setting high temperature limit** (output No.1 is triggered) x= temperature in °C
Password BTNx y	**Setting the address of the Dallas chips** x = Number of chips (1 to 5), y = 12 characters – address of access chips

An info SMS is sent on the first Monday of each month at 10am and includes information on GSM and input/output status.

4. Control

Output control is possible via SMS from any mobile phone. Output 4 can also be controlled by ringing the number(s) stored in the phone book during configuration of GC 055. Output 1 can be controlled according to the temperature measured by the thermometer attached to the bus Dallas.

Text for SMS command	Description of command
Password OUTxON	**Connecting output x** (output will be switched to log. 0)
Password OUTxOFF	**Disconnecting output x**
Password INS	**Enquiry about input status**
Password OUTS	**Enquiry about output status** (Reply status 0 = Output active, earthing)
Password COUNTER5 ?	**Enquiry about counter status**
Password T1 ?	**Enquiry about temperature**

The maximum output load is 0.5 A at 12 V. Output can be connected with a relay that is connected to +12 V and to a GC 055 output. The relay is triggered by the earthing the GC 055 output.

5. Control using SMS

Text for SMS command	Description of command
Password ARM	**Activation of alarm inputs**
Password DISARM	**Deactivation of alarm inputs**

6. LED Indication

Blinking GSM 0.5 s / 0.5 s = GSM module not connected to network.
Blinking GSM 1× per 2 s = GSM module connected to network.
Blinking Power 1x per 2 s = Power on
Blinking Action 1× = Action implemented
1 up to 4 – permanent light = output active (output is triggered by earthing, relay triggered)

7. Konfigurace pomocí PC

GC 055 is programmable from a PC using the IDE Control Panel which is downloadable from the manufacturer's website www.level.systems.

8. Technické parametry

Unit dimensions	52 x 90 x 57 mm
Rated supply voltage	12 V DC
Idle consumption	<20 mA
Maximum power input	0.5 A at 12 V
Maximum output load	0.5 A at 12 V
GSM	900 / 1800 MHz, SIM card Plug-in 1,8 V
Working temperature range	-25 °C to +65 °C*

* Outside this range, the GSM functions of the product may be limited or completely non functional.