

GC 055 H - GSM Detector

The SMS detector allows monitoring of five inputs and control of four outputs, one of which can be controlled simply by ringing, and one which is controlled by the temperature sensor connected to the Dallas bus.

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)
CB 170 020	Mini USB cable
ED 060 100	Temperature sensor (-40 to 130°C)

2. Description of functions

GSM detector has five inputs, which are activated by a positive impulse. When activated, it will send an SMS to up to 4 telephone numbers, and ring 2 numbers.

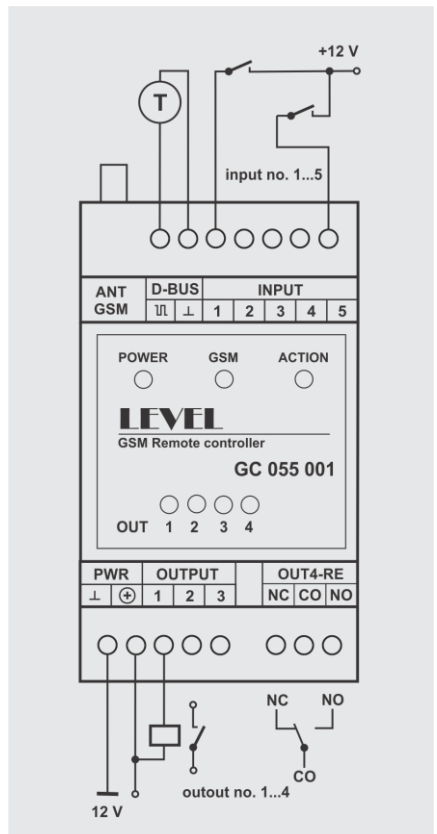
Furthermore, the GSM detector has four outputs. Outputs 1-4 are controlled by SMS. Output 1 is controlled by the temperature sensor connected to the bus Dallas. Output 4 (relay) is controlled by calling the phone numbers of the SIM cards in GC 055. This option has up to ten phone numbers entered in the 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).

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 Up to 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
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= disconnected power, low battery, monthly report)
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

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 t1	Enquiry about the 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. The input status is shown in the voltage (V).

5. LED Indication

Blinking GSM 0.5 s / 0.5 s = GSM module not connected to network.

Blinking GSM 1x per 2 s = GSM module connected to network.

Blinking Power 1x per 2 s = Power on

Blinking Action 1x = Action implemented

1 up to 4 – permanent light = output active (output is triggered by earthing, relay triggered)

6. Configuration via PC

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

7. Technical parameters

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
Operation temperature range for GSM	-25°C to +65°C *
Temperature range for all other uses	-40°C to +85°C

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

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