

UCM/GSM4(2G) and UCM/GSM4(3G)

The UCM/GSM4 provides a cellular network connection to Comfort. This gives Comfort the following abilities;

- Acts as a backup for alarm dialout when the land line is faulty or cut. Alternately, it can be used as the primary dialler without a fixed telephone line, for installations where a telephone line is not available
- Allows the user to dial to the GSM number instead of the fixed telephone line to access Comfort menus.
- Allows Comfort to report alarms to the users mobile phones via SMS (Short Message Service). The SMS message will show time stamp, alarm type and Zone or User name.
- Allows authorised Mobile phones to send commands to control or check the status of appliances and the security system via SMS. Each Phone can be independently authorised to arm, disarm, and access automation control.

There are 2 models of UCM/GSM4; UCM/GSM4 (2G) and UCM/GSM4 (3G).

The UCM/GSM4 (2G) operates on 2G networks for quad-band frequency i.e. 850/900/1800/1900 MHz. Product UCM/GSM4 without any suffix has been rebanded UCM/GSM4(2G).

UCM/GSM4(3G) operates on 3G networks; Dual Band UMTS/HSDPA 900/2100 MHz. This can be used in countries where 2G networks are no longer available. An advantage of UCM/GSM4 (3G) is better network performance so that dial-out to Central Monitoring Stations (CMS) is supported. For UCM/GSM4(2G), dial out to CMS is not recommended because of poorer signal transmission through 2G.

The UCM/GSM4 requires a Subscriber Identity Module (SIM) card to be inserted, just like with a cellular phone. This can be a prepaid card, or one which is billed monthly according to a usage plan.

Features of UCM/GSM4

- Zone and Alarm Names (32 characters) are stored in UCM/GSM4 EEPROM.
- 64 Customised messages can be sent by SMS
- Help Messages are sent by SMS
- Query Security Mode and Control Status
- Home Control SMS Command will reply with Status
- Arm/Disarm Security System will reply with Security Mode status.
- Alarm SMS messages from Comfort include Time Stamp
- Alarm SMS messages from Comfort includes User Names instead of Number for user alarms e.g. Arm and disarm
- Each Phone has Permissions for SMS Arm, SMS Disarm, SMS Control
- Support for non-English character sets using UCS2 (future upgrade)

Upgrading from UCM/GSM3 to UCM/GSM4

UCM/GSM4 includes the U2 EEPROM 24LC256 for storage of parameters. UCM/GSM3 did not include the U2 EEPROM but does have a socket for the insertion of the U2 EEPROM. UCM/GSM3 may be upgraded to UCM/GSM4 by

- 1 Purchasing IC04-256K EEPROM to plug in to the U2 socket
- 2 Upgrading the firmware to GSM4. UCM/GSM3 firmware must be upgraded to an intermediate UCM/GSM3 firmware which allows further upgrade to UCM/GSM4. Contact support@cytech.biz for instructions.

To upgrade older GSM versions (UCM/GSM2) the GSM4 (2G or (3G) submodule must be purchased.

Specifications

UCM/GSM4

- PCB Size: 108 x 88 mm
- Power Supply (from Comfort): 12V 50 ma (idle), 250 ma (transmit)
- Operating Temperature: 0-55°C
- UCM/GSM4 (2G) Frequency: Quad Band 850/900/1800/1900 MHz
- UCM/GSM4(3G) Frequency: Dual Band UMTS/HSDPA 900/2100 MHz
- SIM Card Interface : 3V/1.8V
- Operating Temperature Range: 0 to 60 deg C
- Relative Humidity: < 95 % RH non condensing
- U2 EEPROM 24LC256 (256 K Bits)

Equipment

The following equipment is required

- Comfort II with firmware version 7.099 or higher. The UCM/GSM4 is not compatible with Comfort 1
- Configurator version 3.11.10 and above
- UCM/GSM4 Firmware 7.097 and above

SIM Card

A SIM (Subscriber Information Card) must be used in the GSM Module. This may be a prepaid card or one which is billed monthly as part of a service plan. However, it is not advisable to use a prepaid card as the user would not know when the amount remaining has been used up.

The SIM card or plan must allow sending of SMS.

If incoming SMS commands are to be accepted, then Caller ID must be enabled. This may incur an additional charge.

If using a prepaid SIM card, check if the SIM card needs to be activated before use. Please check the instructions for the SIM card



The SIM card must not be password-protected.

The SIM card will come with a telephone number. Use this number to dial to the system via the GSM module

What is Included

The UCM/GSM4 package contains the following*:

UCM/GSM4 Manual

- UCM/GSM4 module with GSM4 submodule. The submodule may contain GSM modules from different manufacturers due to availability, but all have the same functionality
- 5-way audio cable



- 4-way RS485 cable



- Antenna (with cable of approximately 1 metre long)



*Subject to change without prior notice

Settings

Connections (on Baseboard)

- JP3 - 12V/COM terminal block. Connect to 12V/COM on Comfort if JP2/2A not used. Do not connect if JP2/2A is used to connect back to Comfort.
- JP4 - KA/KB terminal block. Connect to KA/KB on Comfort if JP2/2A not used. Do not connect if JP2/2A is used to connect back to Comfort. JP2 and JP2A - 4 way headers (12V/COM/KA/KB). Either connector can be connected to Comfort's J6 connector via the supplied cable when JP3 and JP4 are not used. This plug-in cable connection is used when the distance between the controller and

UCM/GSM4 Manual

UCM/GSM4 is less than 30 centimetres. For longer distances, use the JP3 and JP4 terminal blocks

Connections (on Daughterboard)

- J3 – 5-way connector for voice connection. The 5 way audio cable is to be connected from J3 to J54 (GSM) connector on Comfort II.
- U3 – SIM card holder.

Jumper Settings

- SW7 (RS485 ID Primary) – set according to ID of the UCM/GSM4

ID	SW7-A	SW7-B	SW7-C	SW7-D
1	Short	Short	Short	Short
2	Open	Short	Short	Short
3	Short	Open	Short	Short
4	Open	Open	Short	Short
5	Short	Short	Open	Short
6	Open	Short	Open	Short
7	Short	Open	Open	Short
8	Open	Open	Open	Short

Table 1 - UCM ID shunt Settings

By convention, ID=1 is reserved for UCM/USB or ETH for writing/reading configuration file. The UCM/GSM4 should be set to ID 2 or above so that any RS485 communications failure can be reported by Comfort.

Press RESET on the UCM/GSM4 after changing the ID settings.

Modules and Settings > Number of UCMs must be programmed according to the number of UCMs connected. Press RESET on Comfort after changing the number of UCMs or other modules.

- SW8 (RS485 ID AUX) – positions A to G are unused. H is open for normal operations and shunted to indicate signal strength on the LEDs (refer to “Signal Strength Indicators”)

Buttons

- SW1 - RESET. This button resets the UCM/GSM4 module. It does not change any parameters in Comfort.

LED Indicators (on UCM)

- D1 “RDY” (Green) – should be on at all times during normal operations
- D2 “BUSY1” (Red) – indicates when initialisation or communications error has occurred
- D3 “BUSY2” (Red) – indicates call in progress
- D4 “ERR” (Red) – error indicator, normally no network
- D9 (Red) – RS485 Transmit to Comfort
- D10 (Green) – RS485 Receive from Comfort

The LEDs also show the signal strength with SW8-H is shunted. Refer to the following table for the meaning of the LED combinations.

RDY	BUSY1	BUSY2	ERR	Meaning
On	On	-	-	Initialising or GSM Network Error
On	-	On	-	Call in Progress
On	-	-	On	No GSM Network
-	On	On	-	No SIM Card or SIM Error

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RDY	BUSY1	BUSY2	ERR	Meaning
-	On	-	On	SIM card requires PIN code
On	On	-	On	U2 EEPROM Error
On	-	-	-	Normal Operation, Idle
-	-	-	-	* Signal Strength 0 (Bad)
-	-	-	On	* Signal Strength 1 (Poor)
-	-	On	On	* Signal Strength 2 (Fair)
-	On	On	On	* Signal Strength 3 (Good)
On	On	On	On	* Signal Strength 4, 5 (Excellent)

Table 2 - LED Status

SW8-H is shunted for GSM signal strength indication, remove for normal operation.

The Signal Strength is updated every 8 seconds. Note that shunting SW8-H overrides the GSM operation status indication

DO NOT shunt SW8-H during reset, otherwise the UCM/GSM4 will report signal strength of 0 to Comfort and the GSM will not be operational until a change in signal strength is detected. Also DO NOT keep SW8-H shunted permanently to avoid this problem in case the UCM is reset for any reason. Always remove the shunt after checking the signal strength.

 In Configurator 3.7.x, the GSM status and signal strength is shown on the status bar

LED Indicators (on GSM Daughterboard)

- Green - flashes once every 3 seconds.
- Red – indicates power is supplied to the daughterboard.

ICs

- U1 - Microcontroller IC. Label indicates the firmware version number GSM 7.xxx
- U5 - RS485 Interface to Comfort.
- U2 - 256K bits EEPROM 24LC256

UCM ID Switch

Comfort is able to support up to 8 UCMs. SW7 is a set of 3 headers which determines the UCM ID, according to Table 1.

Mounting UCM/GSM4

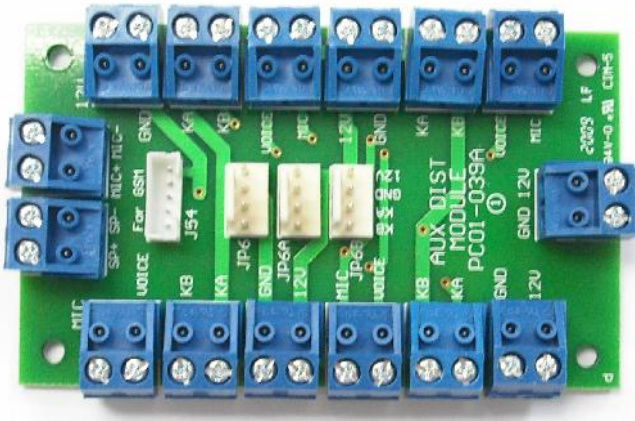
Care must be taken to ensure that the antenna is not mounted in any metal casing to ensure there is GSM coverage. The UCM/GSM4 may be mounted internally in an enclosure with the antenna mounted outside.

Normally the UCM/GSM must be mounted in the same enclosure as Comfort because of the length of the 5 way audio cable from J54 on Comfort and the UCM/GSM. If this location does not have sufficient network signal, there is a way to allow the UCM/GSM to be mounted in another room or location.

The ADM02 (Auxiliary Distribution Module) shown below has terminal blocks and connectors for the 4 way cable to allow more connections to be made to Comfort. There is a 5 way connector marked J54 and "GSM" on the ADM02. Connect the 5 way audio cable from this connector to J54 on Comfort. Use a shielded CAT5 cable to connect the terminal blocks marked SP+, SP-, MIC+, MIC- to the same terminals on another ADM02 in the location where the UCM/GSM4 is to be mounted. Use another CAT5 cable to connect the 4 signals

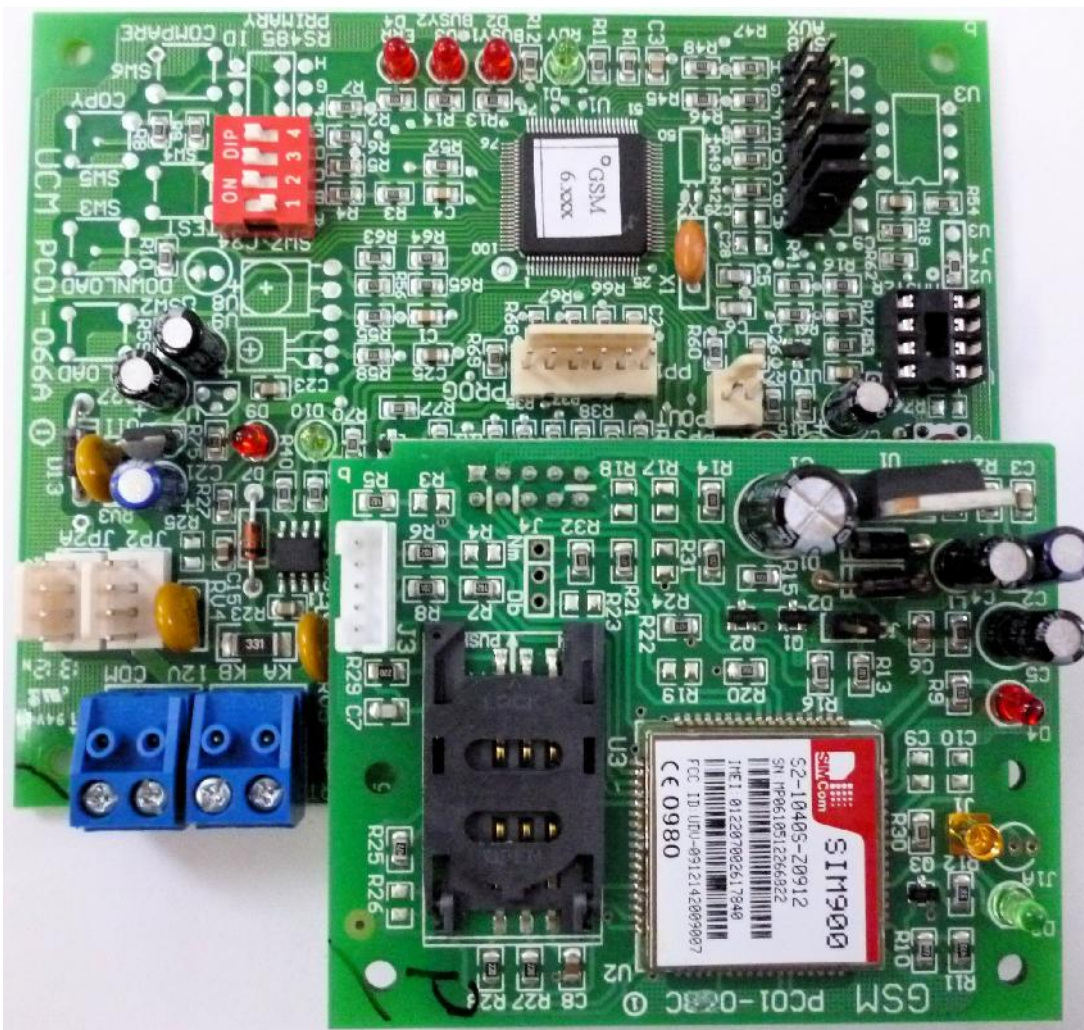
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12V, GND, KA, KB between the 2 ADM02s. From the second ADM02, connect another 5 way audio cable from this ADM02 to J54 on the UCM/GSM4. The ADM02 is supplied with a 4 way RS485 cable and a 5 way audio cable.

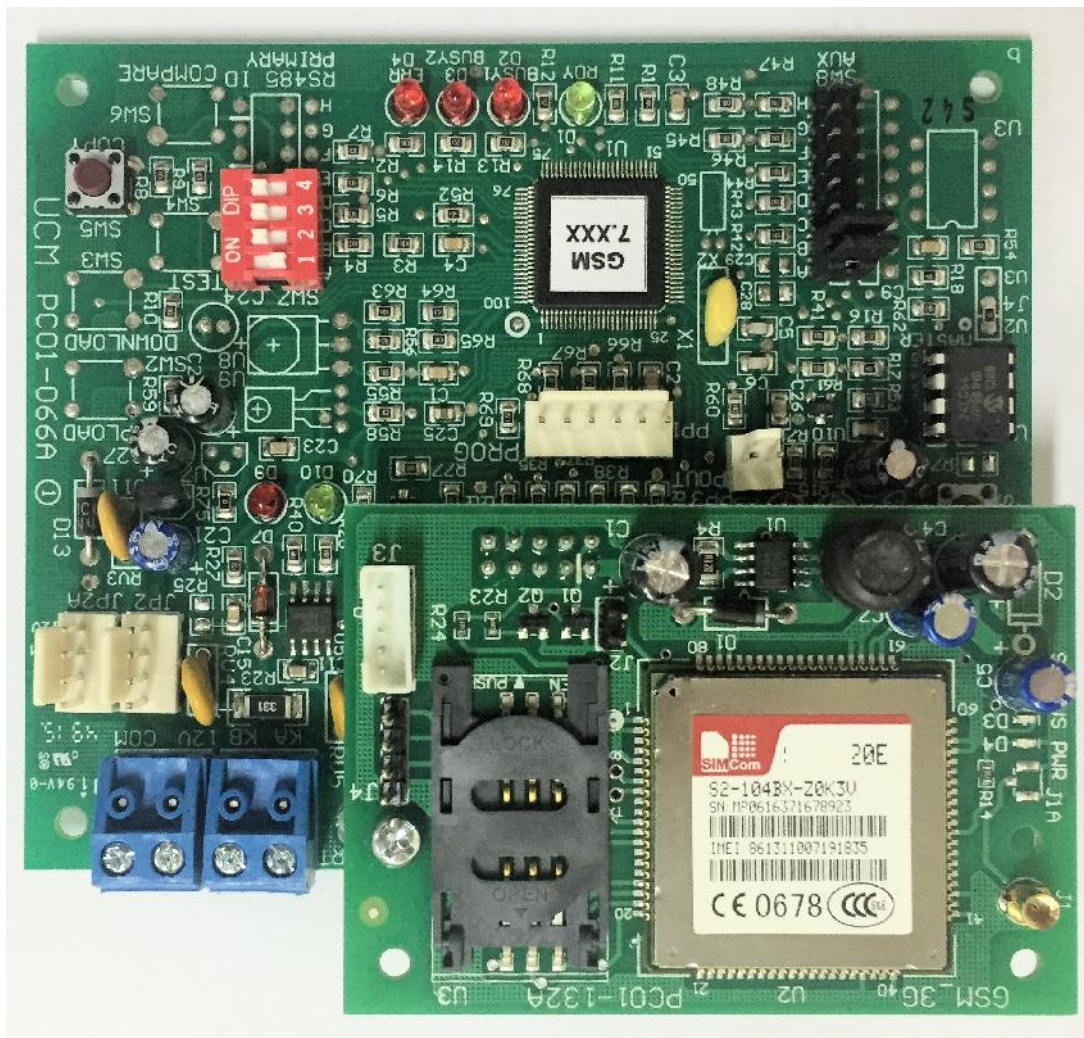


ADM02 Auxiliary Distribution Module with GSM Extension

Setup



UCM/GSM4 (2G)



UCM/GSM4 (3G)

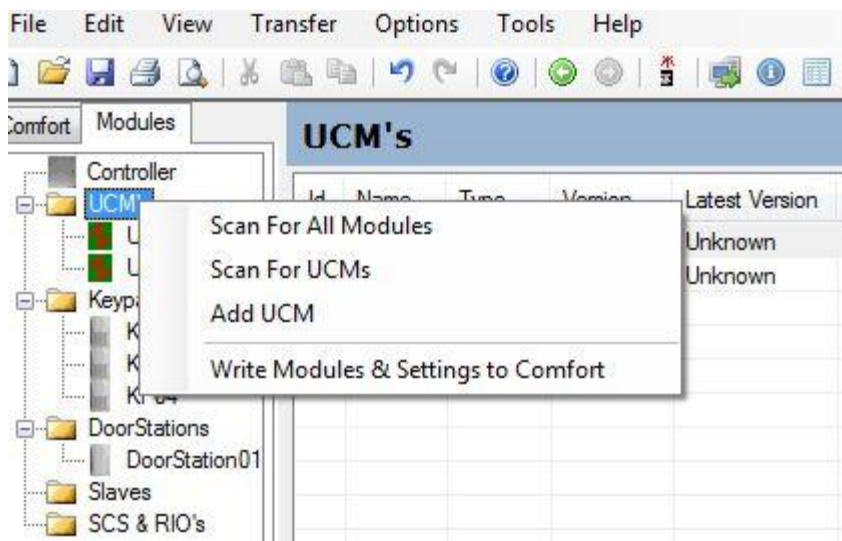
- 1 Insert a SIM card into the SIM card holder. The SIM card must not be password protected. Disable password protection if applicable.
- 2 Connect the antenna, and connect J3 on the UCM/GSM4 to J54 (GSM) on Comfort II via the 5-way cable provided.
- 3 Before connecting the power to UCM/GSM4 from Comfort, the ID on SW7 must be set according to Table 1, i.e. the ID has to be set according to the number of UCMs in the system. If there is only 1 UCM, the ID on the UCM/GSM4 must be set to 2. By convention, ID 1 is reserved for writing and reading from Comfort, and is not reported in case of Communications Failure. Comfort supports a combination of 8 UCMs.
- 4 The UCM/GSM4 power is connected to Comfort via the supplied 4 way white cable from the 4 pin header JP2 Comfort II's RS485 header. This supplies power to the UCM/GSM4, as well as allowing communications between Comfort and the UCM/GSM4. It is not necessary to switch off the power to Comfort before plugging in this connection.
- 5 The RDY LED (green) should be turned on, indicating that the UCM firmware is running. The BUSY1 LED will be on while the UCM/GSM4 is establishing the GSM network connection.

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- The LEDs D9 (red) and D10 (green) on UCM/GSM4 should blink rapidly showing that RS485 communications has been established between Comfort and the UCM.
- The red LED on the daughterboard should be steady on to indicate that there is power supplied to the daughterboard. BUSY1 LED should go off. If there is no network, BUSY1 will turn off and ERROR will turn on. The UCM/GSM4 will periodically try to communicate with the network every 10 seconds.
- BUSY2 LED will turn on when there is a call in progress.

Configuration

Click on Modules tab ->UCMs. Right Click on UCMs and select Scan for UCMs or Scan for All Modules as shown below. If you are not connected to Comfort at this time, select Add UCM and select the type of UCM as GSM4.



Click on UCM2 on the left pane. The Properties screen below is seen.

GSM

Write to EEPROM | Read from EEPROM | Copy from Comfort | Save Template | Load Template | Get Status

UCM/GSM4 Properties | Help Messages | Security Mode | Zone Names | Alarm Names | User Names | Customised Messages | Control

UCM Properties

Id	5
Name	GSM
Type	GSM4
Version	7.097
Latest Version	Unknown
Serial Number	A123456
User Comments	

UCM/GSM Properties

English	Yes
SMS Alphanumeric Id	Cytech Technology
GSM Module Type	5320-3G

- ID is the UCM/GSM ID
- Type is GSM4
- The Version field shows the current UCM/GSM4 firmware
- The Latest Version field shows the current released firmware if you are connected to the Internet. Right click on UCM/GSM in the left pane and select "Check for Updates" to upgrade to the latest firmware.
- SMS Alphanumeric Id is a 32 character text field that is shown on the SMS Text message sent to phones assigned as SMS Phone Type to identify the location of the Comfort system.
e.g: 20:45 100 ABC Road - Intruder Alarm - Kitchen Movement
- GSM Module Type identifies the GSM Module hardware; eg 800 (2G), 900 (2G), 5320 (3G) This helps to identify which model of UCM/GSM is installed (requires Configurator 3.11.10 and GSM4 firmware 7.097)

Help Messages

UCM02

Write to EEPROM | Read from EEPROM | Load Default Values | Status Off | Save

UCM/GSM4 Properties | **Help Messages** | Security Mode | Zone Names | Alarm Names | User Names

UCM/GSM4 Help Message Properties	
Reply to ?	(1) - Help for Arm Security (4) - Help for Control
Reply to 1	(1) - Security Status (10) - Security Off (Unset) (11) - Arm to Away (12) - Arm to Night (13) - Arm to Day (14) - Arm to Vacation
Not Permitted	Command Not Permitted

The Help Messages Screen shows the Help Messages that are available by SMS. This is the text that is received when you send "?" and "1" to UCM/GSM. The text can be changed for other languages.

Security Mode

UCM02

Security Mode Names

Off	Security Off
Away	Away Mode
Night	Night Mode
Day	Day Mode
Vacation	Vacation Mode

Phone Numbers

1	96674683
2	91798642

RS485 Communications Failure

Alarm Message	RS485 Comms Fail UCM/GSM
Alarm Restore Message	RS485 Comms Fail UCM/GSM Restore

The “Security Mode Names” field shows the text for the security mode SMS Messages. This can be changed for other languages.

The Phone Numbers field is to enter 2 Mobile phone numbers that will be notified when there is a GSM RS485 Communication Failure i.e. no bus communications with Comfort.

Zone Names

UCM02

No	Name
1	FrontDoor
2	Landing
3	DiningMovement
4	KitchenWindow
5	DiningWindow
6	Zone06
7	DiningLight
8	LandingLight
9	Zone09
10	Zone10

Zone Properties

Number	2
Name	Landing

This shows the zone text which is initially copied from Comfort Zone assignments. It allows different text to be assigned to the zone names as well as support for other languages. The zone names are extended to 32 characters and allows different languages to be supported.

Alarm Names

No	Name
1	Intruder
2	Duress
3	LineCut
4	ArmFail
5	Zone Trouble
6	ZoneAlert
7	LowBattery
8	PowerFail
9	Panic
10	EntryAlert
11	Tamper
12	Fire
13	Gas
14	FamilyCare

These are the Alarm Names which is initially copied from Comfort Alarm Types. The alarm names are extended to 32 characters and allows different languages to be supported.

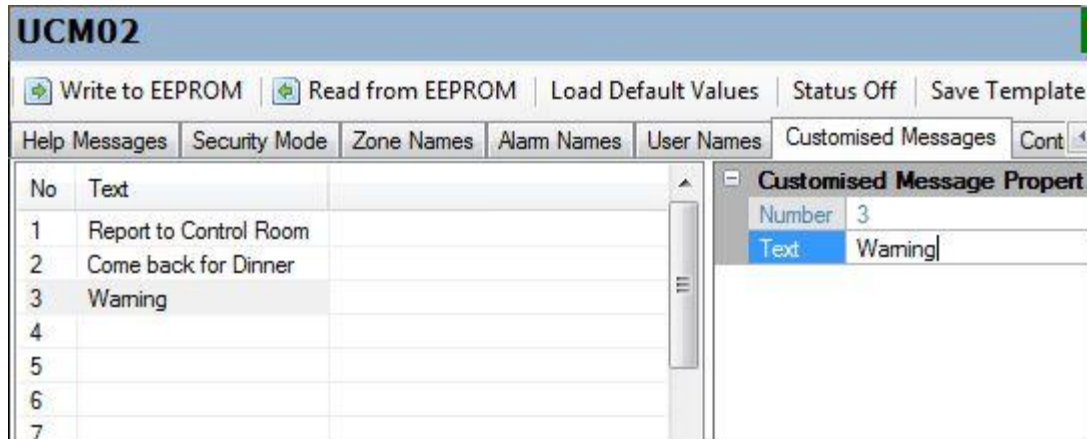
User Names

No	Name
1	C
2	Laura
3	Diana
4	sandra
5	Cora
6	User06
7	User07
8	User08
9	User09
10	User10
11	User11

User Name Properties
 Number: 1
 Name: C

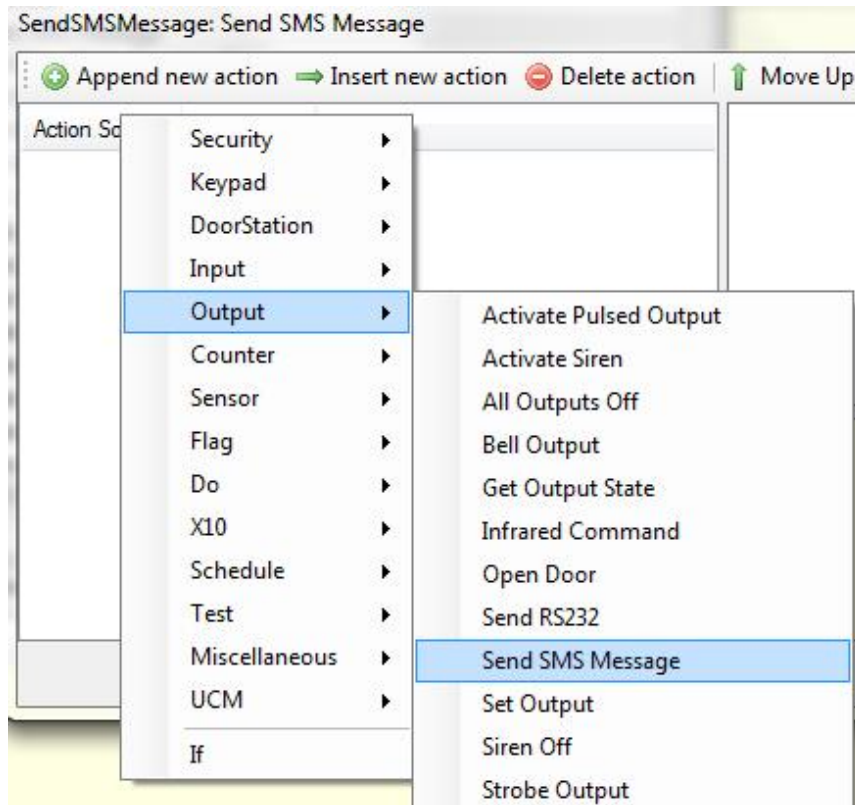
User names are copied from Comfort. The User names are 16 characters.

Customised Messages



64 customised messages can be programmed to be sent by SMS to users phones.

The action "Send SMS Message" causes a customised SMS message to be sent to a users mobile phone.



Select Users Phone and Message number.

SendCustomMsg1: send custom msg 1

Action Source	Description
Send SMS Jane 1	

Send SMS Message

Phone Number	Jane
Message Number	1
Description	

- ☎ Take note that currently the number of customised messages sent at one time is limited to 3. If more than 3 customised messages are needed at one time, use a Timer Delay between groups of messages.

Control

UCM02

UCM/GSM4 Properties | Help Messages | Security Mode | Zone Names | Alarm Names | User Names | Customised Messages | Control

Control Group 0 - Lights

- 0 - All Lights
- 1 - Dining Light
- 2 - Landing Light
- 3 -
- 4 -
- 5 -
- 6 -
- 7 -
- 8 -
- 9 -

Control Group 1 - Blinds

Control Group 2 - Heating

Control Menu Group Properties

Number	2
Menu Text	Heating

This shows the text for the control groups, initially copied from Comfort. You can edit the names as needed for example to shorten the description so as to fit into an SMS message which has a limitation of 160 characters.

- ☎ The main purpose of keeping the Zones, Alarms, User Names and Control names in the UCM /GSM4 is to allow SMS messages to include this information in help messages and status

Menu Bar

UCM02

UCM/GSM4 Properties | Help Messages | Security Mode | Zone Names | Alarm Names | User Names | Customised Messages | Control

UCM Properties

Write to EEPROM

After configuration as described above, Write to EEPROM to save the settings into the U2 EEPROM of UCM/GSM4. A progress bar will appear. This should take several minutes. Insert a SIM Card into the SIM Holder before write to Comfort.

Read from EEPROM

This reads the GSM4 configuration from EEPROM and populates the UCM/GSM4 configuration pages.

Load Default Values

This copies the default values from Comfort and clears the current GSM4 configuration. It is the same as starting a new UCM/GSM4 configuration.

Save Template

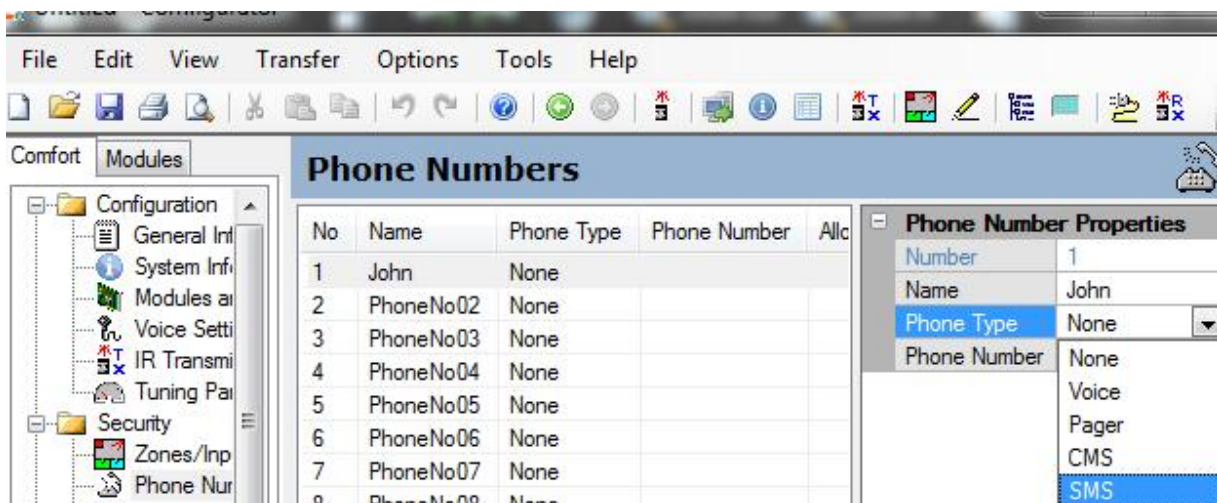
This saves the GSM4 configuration as a .ugtx file to be used again.

Load Template

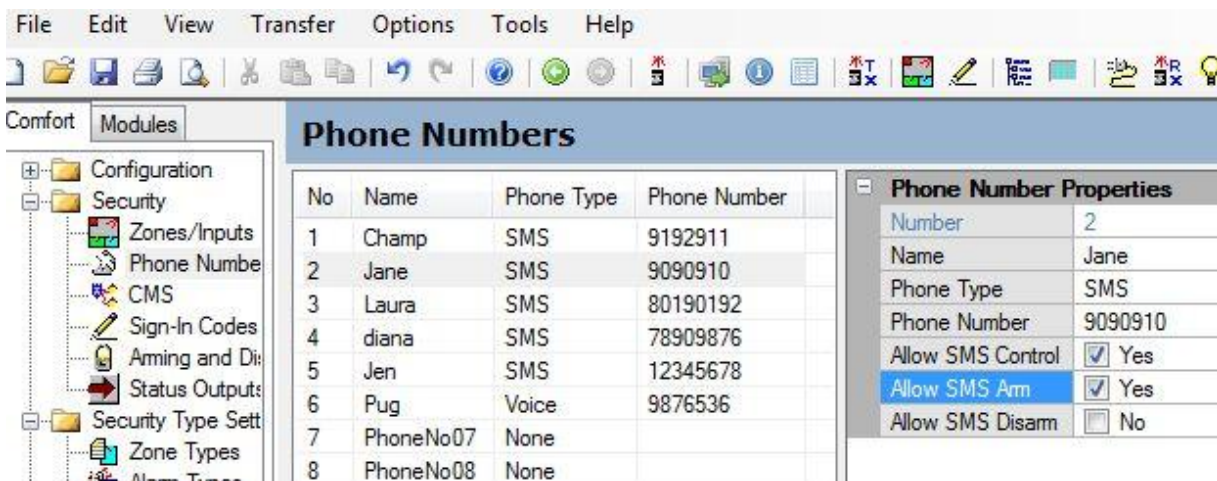
This loads a saved GSM4 configuration from a .ugtx file

Sending SMS

To program the phone number(s) for SMS dialout, go to Security > Phone Numbers.



- 1 In the Phone Number Properties, click on the Phone Type field to reveal the pulldown menu and select SMS. "SMS" is only seen if a UCM/GSM4 (or UCM/GSM) is selected as one of the UCMs.
- 2 Enter the phone number of the mobile phone for SMS reporting. The same mobile phone number can be programmed in 2 phone indexes as Voice Phone and SMS.



- 3 The fields “Allow SMS Control”, “Allow SMS Arm”, “Allow SMS Disarm” determine the permissions for this mobile phone when sending SMS to Comfort. Each Phone in the dialout list has its own set of permissions
- 4 This is repeated for each phone.

Operation

Comfort has a buffer of 16 events for SMS reporting to cater for multiple alarms occurring around the same time. If there is a backlog of 16 SMS events which have not been sent because of network or other problems, new events will not be reported. If SMS messages are not sent because of a temporary loss of signal, they will be sent out when the network communication is restored. However, if there is a communications failure for the UCM/GSM4 on the RS485 network, SMS messages will be lost and will not be sent out when the communications is restored.

SMS Messages from Comfort

The format of the SMS Text message is as follows

HH:MM XXXXXXXXXXXX - AlarmName - ZZ ZoneName

where HH:MM is the time of sending the message in 24 hour format, XXXXXXXX is either a 32-character text (SMS Alphanumeric Id) or a 4-digit identification number (SMS Numeric Id) to identify the source of the message. AlarmName is the Alarm Name field in GSM4 Configurator Alarm Names page (max 32 characters)

The name is a single word without any spaces. The default Alarm names can be changed if desired, although it is best to leave them unchanged to maintain consistency with other systems.

The ZoneName following the Zone Number ZZ is taken from GSM4 configurator > Zone Names page

For example, if zone 2 - Kitchen Window causes an intruder alarm, the SMS message may be

10:25 100 ABC Road - Intruder - 02 KitchenWindow

A power failure may be reported as

18:32 100 ABC Road - PowerFail - 01

In this case, there is no zone/input associated with Power Failure.

If a Communications Failure from keypad 2 occurs, the message may be

20:46 100 ABC Road - RS485Comms - Keypad 2

For a Low Battery on Slave 1,

11:19 100 ABC Road - LowBattery - SEM 1

When Trouble alarms are restored, “Restore” is appended after the message e.g.

04:03 100 ABC Road - PowerFail Restore

04:03 100 ABC Road - LowBattery Restore

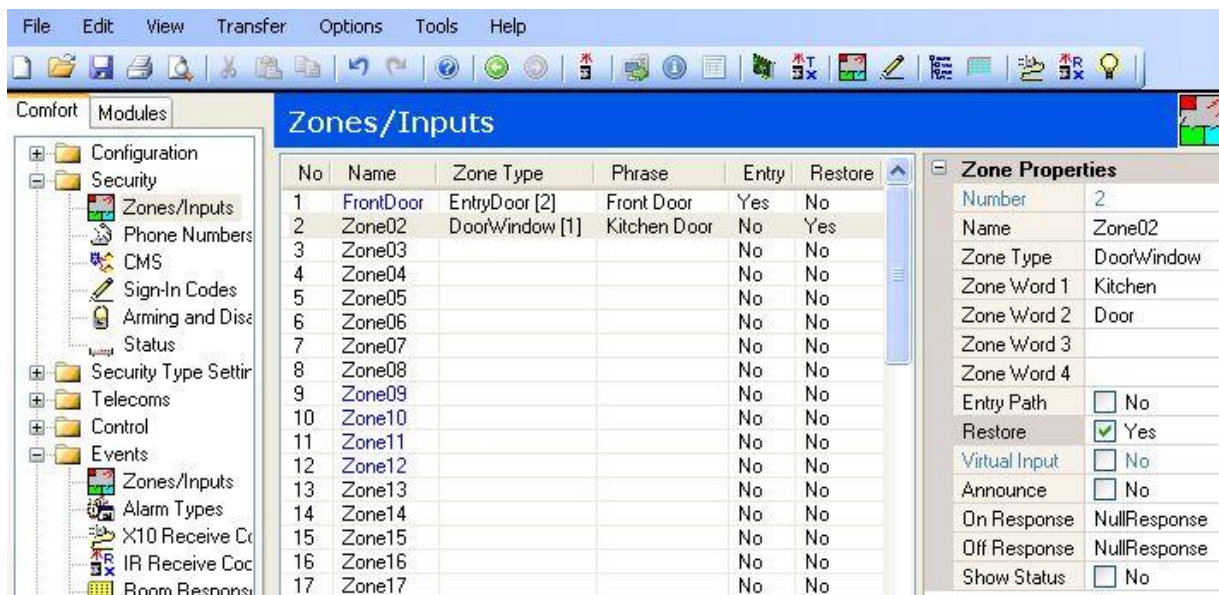
04:03 100 ABC Road - RS485Comms Restore

Note that the ID when restored is not reported

- “Restore” is automatically appended for when Trouble alarms like Power Failure, Low Battery, Phone Trouble, RS485 Comms alarms are restored. Reporting of Trouble alarm restore is automatically enabled and does not need to be programmed.
- “Restore” is appended after the message if a zone (input) has been restored after a zone-related alarm, if the Zone Restore field is enabled in Security > Zones/Inputs. For example if zone 2 (window) which caused an intruder alarm has been closed, the SMS message will be

09:10 100 ABC Road - Intruder - 02 KitchenWindow Restore

The Zone Restore report is enabled in Security > Zone Settings screen. The “Restore” field should be set to “Yes” for each zone which should report to SMS when restored.



The Zone Restore feature for SMS reporting is useful for monitoring inputs from industrial equipment or machinery, or from smoke and gas sensors where it is important to know whether the monitored sensor has been restored to its normal state after the alarm. It should not be used for alarm sensors like magnetic contacts and Motion detectors where reporting of zone restore would increase the amount of SMS messages transmitted without any useful purpose. For example, a motion detector or PIR (Passive Infrared sensor) would restore after each activation, so reporting of restore would double the SMS traffic.

Zone Restore can be also programmed by Engineer Menu 1,4.

When the system is armed or disarmed, SMS messages are sent if the Alarm Types System Armed (alarm type 19) and Disarmed (alarm type 17) have dialout enabled for the SMS phone numbers. E.g.



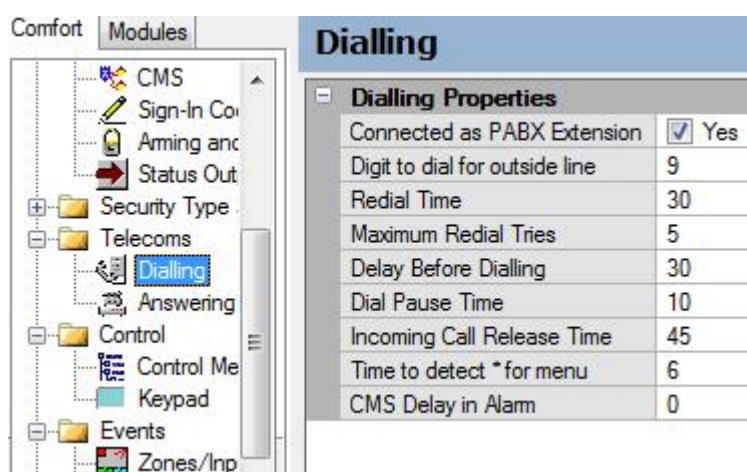
20:56 Cytech Technology-
Disarm-MrBig

The above SMS messages show the system armed and disarmed by user name “Mr Big” at 8:56 PM. User names are found on the User Names Tab in the GSM4 configurator. “Cytech Technology “ in the example is the SMS Alphanumeric ID in the Properties Tab

Dialling out via GSM

Normally, Comfort will not dial to the programmed numbers (maximum 8) by GSM if there is a fixed telephone line connected. It will only do so if it detects that the telephone line is faulty, i.e. has a low voltage on it causing a “Phone Trouble” alarm or is not connected. It also dials out by GSM if the telephone line is working, but a dial tone is not obtained, perhaps by an incoming caller holding on to the connection. Thus, it acts as a backup telephone line to the fixed line for high security installations.

If Comfort is connected to an extension of a PABX as programmed in Telecoms > Dialling, Comfort will not dial the PABX access digit (when Connected by PABX Extension is checked in screenshot below) when dialling via the GSM Module.



When dialling to a Voice Phone, Comfort knows when the called party has answered, so unlike a normal dialout, it will not wait for a “hello” from the line before giving the alarm message

When the telephone line is restored, dial-outs will once again be by the fixed telephone line.

Dialling In via GSM

To access Comfort using the UCM/GSM4, dial the number which comes with the SIM card. Comfort will answer immediately, instead of waiting for the programmed number of rings, and will say “Please Sign In” or the Greeting message if any. Enter the user code to access the system as usual.

Comfort knows when the calling party has ended the call via GSM, and will clear the line immediately and attend to its other tasks. With a fixed line, Comfort needs to detect busy tone to know that the caller has hung up.

Sending SMS Commands to Comfort

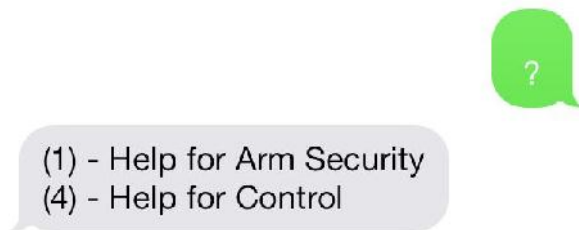
SMS messages can be sent to Comfort from a cellular phone to perform any programmed action on the Home Control Menu, to arm and disarm the security system, to query status of Security Mode or status of the Home Control menu.

The sending mobile phone number must be programmed as one of the 8 telephone numbers for dialout in Security > Phone Numbers, as a Voice Phone or SMS phone type. SMS messages from other phone numbers not programmed in the Phone number list will not be accepted.

Each Phone number in the dialout list has settings for "Allow SMS Control", "Allow SMS Arm", "Allow SMS Disarm" For example. if "Allow SMS Disarm" is disabled, then that phone will not be allowed to disarm the security system by SMS

Help

Sending ? Or any unknown command by SMS to the UCM/GSM will cause a reply which shows the appropriate command menu e.g.



All valid commands must be sent within brackets (...)

The Help text above shows what commands can be sent

Security Mode Command/Query

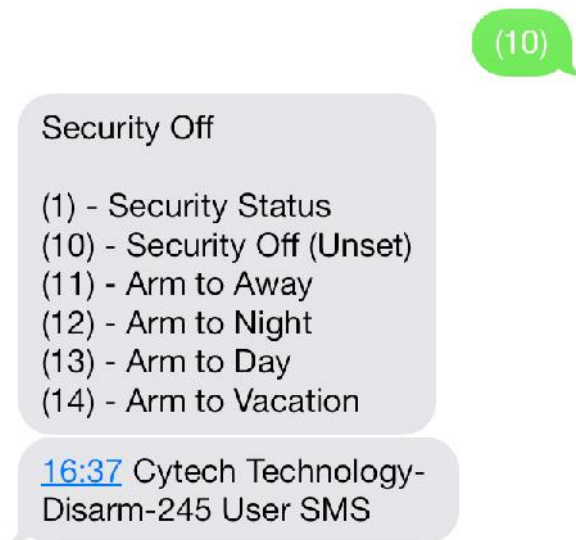
Sending SMS (1) will reply with the current security mode status and will show the commands to arm and disarm the security system, e.g..



The current Mode is Away, (10) command will disarm the system. The arming commands are shown.

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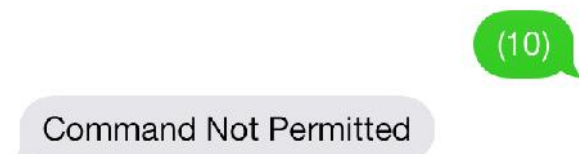
(10) command will disarm the system to Security Off. If the Alarm Type 17 (System Disarmed) is enabled for dialout to this mobile phone as SMS Type, a System Disarmed alarm report will be also be sent as shown below.



If the system is armed using SMS the UCM/GSM4 will reply with the security mode shown. Note that if the Alarm Type 19 (System Armed) is enabled for dialout to this mobile phone as SMS Type, a further System Armed alarm report will be sent as shown below.



The permissions setting for each Phone will determine if the Arm and Disarm SMS commands are allowed. For example if "Allow SMS Disarm" is unchecked, the phone will not be able to send SMS to disarm eg.



Control Menu

Sending (4) to UCM/GSM will reply with the programmed Home Control Menu commands. Each phone has a setting for "Allow SMS Control" which determines if the phone can be allowed to control by SMS.

(4)

(40) - Airconditioner
(41) - Lights
(42) - Dim Lights
(43) - Utility
(44) - Scene Control
(45) - Temperature Sensor

These show how the Home Control menu has been structured in this example..

Group 0 = Airconditioner, Group 1 = Lights, Group 2 = Dim Lights, Group 3 = Utility, Group 4 = Scene Control, Group 5 = Temperature sensor

The SMS command must be placed between the “(“ and “)” characters. Any characters outside (...) are ignored by UCM/GSM4 and can be used as reminder text.

In the above example, the help menu shows the valid commands for the Home Control menu. Sending (40) will show the commands in the Airconditioner Group, (41) will show the commands in the Lights group etc.

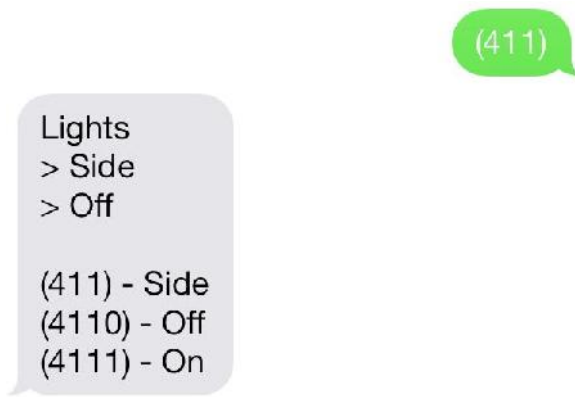
(41)

Lights

(410) - All
(411) - Side
(412) - Lobby
(413) - Room
(414) - Hall 1
(415) - Hall 2
(416) - Office 1
(417) - Office 2
(418) - Office 3
(419) - Toilet

Sending (411) in this example will first show the status of the Side Lights (device 1) as well as the commands to operate it.

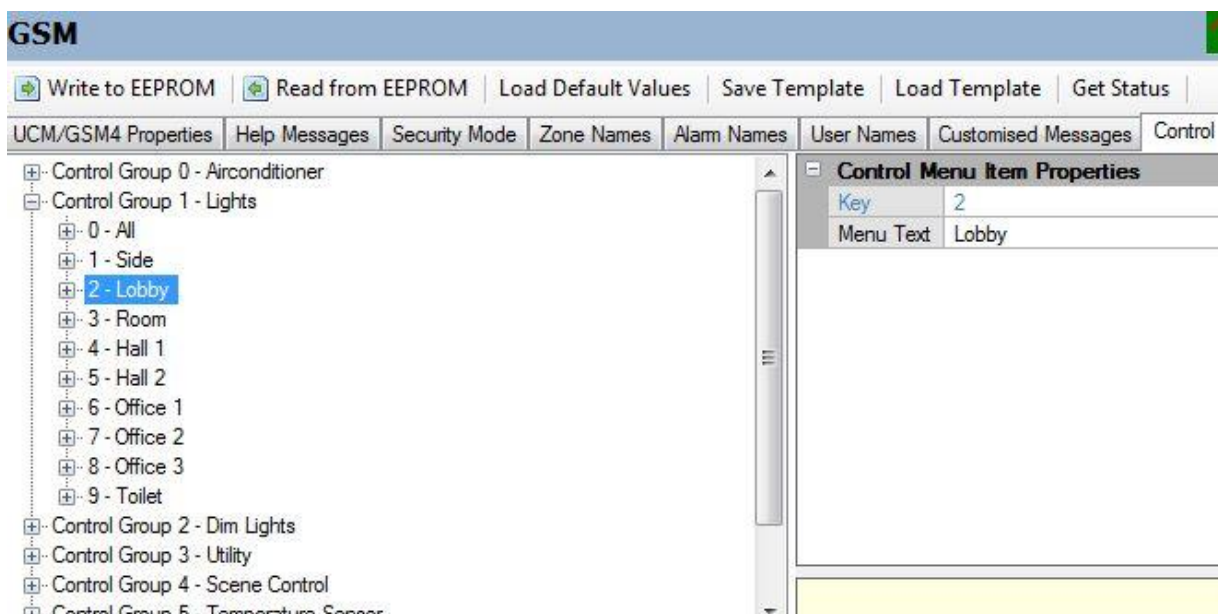
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Sending (4110) will turn off the Side Lights while (4111) will turn it on. UCM/GSM will reply with the status of the device, e.g.



- ☎** The SMS messages are limited to 160 characters. If the Help message exceeds 160 characters, the message will be truncated. This may affect the Control Menu Help reply. To get around this limitation, edit the text in the Control Tab in GSM4 Properties, see below as an example.



Document History

- 2.0.4 - 2 March 2017 added EEPROM ERROR LED indications
- 2.0.3 - 20 Dec 2016 - for UCM/GSM4(2G and UCM/GSM4 (3G)
- 2.0.2 - 12 June 2014 Added SIM Card insert before Write to EEPROM
- 2.0.1 - 24 Sept 2013 for UCM/GSM4
- 1.1.6 - 26 June 2012 - UCM/GSM3
- 1.1.5 - 12 August 2011 - UCM/GSM 6.005 with Comfort Bus Upgrade
- 1.1.4 - 12 August 2010 - new GSM module

Firmware Version History

GSM 7.100 (7 March 2017)

If U2 EEPROM is missing, UCM will not reset, will display "EEPROM Error"

GSM4 7.097 (20 Dec 2016)

Supports UCM/GSM4(2G) and UCM/GSM4 (3G)

GSM4 7.048

Supports GSM4

UCM/GSM 6.081 (5 Dec 2012)

- 1 Implemented COPY button to set ID of UCM if SW7 shunts are removed and U2 EEPROM is installed on new UCM/GSM4
- 2 Improved Firmware Upgrading by Bus

UCM/GSM 6.015 (14 Feb 2012)

- 1 Fix Bug when many SMS are sent from UCM/GSM within a short time, some SMS may be missed.
- 2 Fix Bug when armed to Away, UCM/GSM did not send Away Armed SMS

UCM/GSM 6.005 (12 August 2011)

- 1 Supports SIM900 Module, as well as SIM300, TC35i and Sony
- 2 Supports firmware upgrade using Comfort Bus, Requires UCM 6.xxx and Comfort 6.xxx

UCM/GSM 5.201 (15 February 2010)

- 1 Supports SIM300, TC35i
- 2 Supports scanning of UCM/GSM IDs

UCM/GSM 5.163 (15 July 2008)

Supports TC35i, Q64 modules

UCM/GSM 5.133 (December 2006)

Version for GR64 Module

UCM/GSM 5.98 (April 2006):

Minor changes

UCM/GSM 5.78 (May 2005)

Incorporated automated reply "(xxxx)-OK!"

UCM/GSM 5.68 (July 2004):

Initial release for GM29

Important Note

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Filename: GSM4man
Document Title: UCMGSM4 Module
Version Number: 2.0.4
Date Last Modified: 2 March 2017

web site: <http://www.cytech.biz>
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User Group/Tech Support: <http://www.comfortforums.com>

Printing Size A6 Booklet