



Remote Command Guide

Remote configuration

The SMX can be configured remotely using SMS commands. It is recommended, however, that the PC application software be used for the initial configuration of the unit.

IMPORTANT - Delivery reporting

When sending SMS commands to a unit with 2 SIM cards, users may need to try both mobile numbers. The SMX switches between SIM cards when it encounters a network problem. It is important for users to have 'delivery reports' enabled on their mobile phones to confirm that commands have been received.

SMS sender verify

The unit can be configured to only accept commands and requests from mobile numbers contained in the Message Recipient list. This will not affect the missed call operation.

SMS command rules

- \$ Starts all commands
- 1234 Command pin (4 numeric digits - default 1234)
- * Separates fields in the command string
- + All mobile numbers in international format (max 16 digits)

Diagnostic commands/requests

Unit status request - `$1234*sts`
Returns the following information by SMS: Which SIM is currently in operation, inputs status, relays status, battery voltage, AC status, time and date.

Swap SIM cards - `$1234*sim*sss`
sss - pri = primary SIM
sec = secondary SIM
examples
Switch to secondary SIM - `$1234*sim*sec`
Switch to primary SIM - `$1234*sim*pri`

Request firmware version - `$1234*ver`

GSM signal (quality of signal) - `$1234*rsi`
Signal strength ranges from -113dBm (very weak) to -51dBm (very strong).
70 to -80dBm is considered normal.

Setup commands

Message centre number - `$1234*mctn*msg center number max 15 digits* add/del`

mctn - Sets or changes message centre number
n= primary SIM 1 or secondary SIM 2.
example
Set SIM 1 message centre number to +279119 -
`$1234*mct1*+279119*add`
Set SIM 2 message center number to +271234 -
`$1234*mct2*+271234*add`

Change command PIN - `$1234*pin*new pin`
The command PIN must be 4 digits long and must be numeric (no letters allowed)
example
Change the command PIN from 1234 to 6789 -
`$1234*pin*6789`

Warning: This command can cause loss of control of the unit if the new command pin is not remembered.

Set unit time - `$1234*syt`
The unit time is set automatically when programmed using the PC application. If the units is however not connected to any power source for an extended period (+/- 12 hrs), the unit will loose its' time. Sending this command will reset the unit time from the network.

SMS message commands

Change reporting name - `$1234*uid*name*add`
Set name of the unit 16 characters or less
example
Change reporting name to "Pump Station 2" -
`$1234*uid*Pump Station 2*add`

Auto test time - `$1234*aut*set-HHMM*dw-d*add/del`
Change or delete auto test time.
set - The auto test feature sends a daily test message. set= time messages should be sent (HHMM).
dw-d - Specify days of the week for test auto signals
d= 1-7. 1= Monday, 2= Tuesday, 7= Sunday etc.
If dw is not specified, test messages will be sent every day.
examples
Set the auto test for 13h20 on Wednesday and Sunday - `$1234*aut*set-1320*dw-37*add`
Cancel auto test - `$1234*aut*del`

Note: Message distribution for auto test messages cannot be programmed remotely. If the auto test feature was initially programmed using the PC application, the original message distribution setup will be retained if changes are made using SMS commands. If programmed for the first time, or where the auto test feature is cancelled and then re-programmed, messages will be distributed to all message recipients. Programming custom message distribution should be done using the PC application.

Change vibration sensor sensitivity - `$1234*vib*n`
0 = most sensitive 255 = disabled
example
Set the vibration sensitivity to 50 - `$1234*vib*50`

Add message recipient - `$1234*usrz*mobilenumber*add*all`
(mobile number for reporting)
Up to 10 reporting numbers are supported
examples
Add mobile number 0831234567 as reporting - number 3 - `$1234*usr3*+27831234567*add*all`
Add mobile number 0829876543 as reporting - number 1 - `$1234*usr1*+27829876543*add*all`

Note: Existing mobile numbers are overwritten. Message distribution cannot be programmed by SMS command. All hardwired inputs and Contact ID event messages will be sent to recipients added by SMS command. Programming custom message distribution should be done using the PC application.

Delete message recipient - `$1234*usrz*del`
example
Delete user 3 - `$1234*usr3*del`

Warning: Deleting all message recipients with the sender verify option enabled will result in control over the unit being lost.

Send message recipient list - `$1234*usr1*report`
(use any usr number)

Note: The message recipient list is sent in 2 separate SMS messages each containing 5 recipient numbers.

Change input event SMS - `$1234*msg*input*message*add/del`
Definable 16 character SMS messages are sent to the reporting number/s when the inputs on the unit change state. Separate messages are defined for high and low states for inputs 1-9.
input - ip1h = input #1 high state
ip2l = input #2 low state
examples
Assign message Alarm Active to input 2 high -
`$1234*msg*ip2h*Alarm Active*add`
Delete message assigned to input 2 low -
`$1234*msg*ip2l*del`

Note: If the message for a particular input or input state is deleted, no SMS message will be sent for the input/state.

Relay switching commands

Operate relays - \$1234*rlyn*opr

examples

Pulse relay 2 - \$1234*rly2*pls
 Turn relay 1 on - \$1234*rly1*on
 Turn relay 1 off - \$1234*rly1*off
 Toggle relay 2 - \$1234*rly2*tog

Note: A confirmation SMS is automatically sent back to confirm that the operation was successful. If no confirmation is received, check that the unit has not swapped to the alternate SIM card.

Overwrite command shortcut - \$1234*cscC*kw:S*in:N
 C= shortcut number (1-10), S= shortcut command (32 characters max), N= shortcut instruction. (32 characters max)
example
 Overwrite shortcut 2 command with "Open gate" and overwrite shortcut instruction to pulse relay 2 - \$1234*csc2*kw:Open gate*in:rly2*pls

Delete command - \$1234*cscC*del
example
 Delete command shortcut 2 - \$1234*csc2*del

Missed call relay operation - \$1234*mclm*cell number*rlyn-opr*lm-n*st-HHMM*en-HHMM*dw-d*cfm
 There are 500 missed call locations. Each missed call can perform 1 of 4 operations on the unit or I/O relays. The number of missed calls accepted can be limited and access can be further limited to a time window and to days of the week.

mclm - Create, edit or delete up to 500 missed call entries. mcl= missed call command m= missed call location number (1-500)

rlyn-opr - Relay number n= 1-8. Relay operation opr= 1 of 4 operations - pls= pulse, on= turn on off= turn off and tog= toggle.

lm-n - The access lifespan limits the number of missed calls before deleting the entry. n= 0-255 missed calls. If lm not present or if the value is 0, there is no limit to the number of missed calls accepted. If cfm is present, the delivery report will include the remaining number of missed calls allowed.

st/en - The operational time window sets an access start and end time (HHMM). It defines the hours that the caller will be able to use the missed call feature. If no parameters are present, there is no limit.

dw-d - Select certain days of the week d=1-7 1= Monday, 2= Tuesday, 7= Sunday etc.

cfm - If cfm is present a confirmation SMS is sent.

examples

Add missed caller 35 to turn on relay 1 - \$1234*mcl35*+27825551234*rly1-on

Add missed caller 200 to have access from 06h30 to 07h00 from Monday to Friday, with a 25 count lifespan. Relay 2 must be pulsed and have confirmation SMS enabled -

\$1234*mcl200*+27825551234*rly2-pls*lm-25*st-0630*en-1700*dw-12345*cfm

Delete missed call operation - \$1234*mclm*del
example
 Delete missed call location 90 - \$1234*mcl90*del

Query missed call location - \$1234*mclm*???
example
 Query missed call location 20 - \$1234*mcl20*???

Set timer relay operation - \$1234*tmry*id-ABC*rlyn-opr*tm-HHMM*dw-d*cfm

tmry - Sets 64 independent timers to operate once a day until deleted. y= timer number (1 - 64)

id - ABC= Timer label (16 character max)

rlyn-opr - Relay number n= 1-8. Relay operation opr= 1 of 4 operations - pls= pulse, on= turn on, off= turn off and tog= toggle.

tm - Set time in 24 hour format (HHMM)

dw-d - Select certain days of the week d=1-7 1= Monday, 2= Tuesday, 7= Sunday etc.

cfm - If cfm is present a confirmation SMS is sent.

examples

Set timer 4 to turn a light off using relay 1 at 12h00 each day - \$1234*tmr4*id-Light*rly1-off*tm-1200

Set timer 10 to turn relay 2 on at 23h00 on Saturday with label "Geyser" & a confirmation SMS. - \$1234*tmr10*id-Geyser*rly2-on*tm-2300*dw-6*cfm

Set timer 9 to turn relay 1 on at 06h30 on Monday, Tuesday and Friday with label "Pump" - \$1234*tmr9*id-Pump*rly1-on*tm-0630*dw-125

Confirmation SMS's cannot be sent to individual reporting numbers. Confirmations will be either on or off for all reporting numbers.

Delete a timer - \$1234*tmr*del
example
 Delete timer 16 - \$pppp*tmr16*del

Air-time and balance commands

USSD network commands can be complex and extreme care should be used. Incomplete commands will leave the channel active for some time, will cause the unit to seem unresponsive and will incur per minute network USSD session charges. To initiate a USSD session and forward any replies via SMS to the requesting number, use the following commands:

Request balance - \$1234*usd*USSD request#

Vodacom - \$1234*usd**100# (prepaid balance)

- \$1234*usd**111*502# (prepaid & SMS)

MTN - \$1234*usd**141# (airtime & SMS bundle)

Cell C - \$1234*usd**101# (airtime only)

Note: An error message will show for contract SIMs or if the network does not support airtime balance features.

Load prepaid voucher - \$1234*usd*USSD request#
 Vodacom - \$1234*usd**100*01*voucher number#
 MTN - \$1234*usd**141*voucher number#
 Cell C - \$1234*usd**102*voucher number#

DSC

DSC alarm panels can be controlled using the following commands. A SRL-DSC interface module is required. The DSC serial connection option must be enabled in the programming software.

DSC panel models currently supported include: Pc5005, Pc5010, Pc5020, Pc1808, Pc1864, Power832 and Power864.

Arm/disarm partition - \$1234*dsc*cmd*actPuuuu

act - Command actions

030 - arm partition away mode

031 - arm partition stay mode

032 - arm partition with zero entry delay

033 - arm partition with user code

040 - disarm

P - Partitions 1 - 8

uuuu - User code e.g. 1234

examples

Arm partition 1 away mode - \$1234*dsc*cmd*0301

Arm partition 2 stay mode - \$1234*dsc*cmd*0312

Arm partition 1 with zero entry delay with user code 4444 - \$1234*dsc*cmd*03214444

Arm partition 8 with user code 4444 -

\$1234*dsc*cmd*03314444

Disarm partition 1 with user code 4444 -

\$1234*dsc*cmd*04014444

Trigger panic alarm - \$1234*dsc*cmd*060x

x Panic type - 1= fire, 2= ambulance, 3= police

example

Trigger fire panic alarm - \$1234*dsc*cmd*0603