SEC-ENG SYSTEMS

SED-SECURE INSTALL & PROGRAM GUIDE

V011 - OCT 2024

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PRODUCT WARRANTY

This product is covered by a 12 month, <u>Back-to-Base</u> <u>Warranty</u>, from the date of purchase, and proof of purchase must be supplied. The warranty does not cover damage that has resulted in the incorrect installation or use of the product. The warranty does not cover damage by lightning, product misuse, electrical surges or natural disasters.

LIMITATION OF LIABILITY

Sec Eng Systems products are intended to reduce the risk of loss and damage to property in which the goods are installed to the extent which is practical. Sec Eng Systems does not accept any liability for the loss or damage to property or persons in relation to goods supplied. This disclaimer is only limited to the warranty of the goods supplied and the intended use of the goods.

A. System Hardware 4G / Ethernet / Serial / 485



C. Installation & Set up of 4G and IP Hardware

To install a 4G module, fit as shown into the GSM area

- 1/ Power down SED-SECURE
- 2/ Fit 4G module into the SED-SECURE as shown page 4
- 3/ Fit SIM Card as shown Note: The SIM Card must be activated and no PIN request
- 4/ Power unit up and the 4G module should register on the network within 10-20 seconds, Signal strength is represented by LEDs 1-5

To enable the 4G module -

Ensure you have programmed the pathing (field 51) You can select the paths individually, or by hierarchy.

Example: If you program pathing command 51=12 this means it will be PSTN as primary and GSM as a secondary path.



To install IP module - fit as shown in to the IP area

- 1/ Power down SED-SECURE module
- 2/ Fit IP module into area
- 3/ Once connected, power up and plug into Network.
- 4/ See IP Guide Not in this manual



D. Installation & Output control systems

The SED-SECURE supports remote output controls via one onboard logic output and 4-way expansion I/O relay cards



E: Touch Screen Overview



F: Code Pad Overview



Code Pad LEDs & Operation

In normal operation, the code pad LEDs will indicate the following:

| EDS | 1-8 = Zones 1 to 8 Indication ON = Unsealed OFF = Sealed Flashing at a standard rate = previous Alarm on this zone |
|--------|---|
| BYPASS | ON = indication of isolated zones OFF = no isolated zones |
| | Flashing = in program mode |
| POWER | ON = power OK OFF = No AC Flashing indicates power issue (Check AC and Battery) |
| i ARM | OFF = System Disarmed ON = System Armed |
| 🧧 Keys | 1-0 standard key operation for code entry Star = OFF or Disarm Hash =ON or Arm |

Section 1 - Installer Programming & Defaulting By Touch screen

Entering Program Mode – Touch screen

Note: To enter program mode, the system must be <u>disarmed</u> Pressing **Menu** icon Enter the installer code **654321** Press the **Program** icon

Viewing and changing a field <u>once in Program Mode</u> Enter the filed number and content of the field will be displayed Example: To Read field 01 type 01

To change the content, hit the **Change** icon and enter the required data then press **Change** icon again Hit **Clear** to clear the display for a new entry

To factory default - if required

Enter installer code 654321 Enter the default code 99147369 Wait 10 seconds then Exit

Section 2 - Installer Programming & Defaulting By Code Pad



The LED Code Pad allows programming and read back via its LED in decimal format LEDs 1-8 Decimal numbers 1 - 8 LEDs Bypass =9 LEDs Power = 0 Service = Field view



Entering Program Mode -

To enter program mode, the system must be **Disarmed** This is done thru the Code Pad Factory default code **654321#**

How to read and program fields -

To enter program mode, **key in 654321#** and the Code Pad service LED will now light up - you are now in program mode **Note:** Some Program fields are 2 digit or 4 digit + the data follow the function number for indication



Programming data in -

Once you view a field, you can change the data Example: to program a field once you have displayed the field

You may now program in, while the service light is flashing, select * followed by data you wish to enter followed by #.



To factory default-

Enter code via installer code (654321#) then Enter 99147369# wait 10 seconds then 00# to Exit

F: Section 3 - Programming via PC

•The SED-SECURE can be programmed via PC, using Windows HyperTerminal.

To do this, connect a PC with a Std 9 Pin D Cable supplied to the Com1 on the main board -



Once connected, using Windows HyperTerminal or an alternative program, ProComm or Ucomm

1/ Ensure the SED-SECURE is not armed, if so, disarm the system 2/ The PC port settings should be 8-N-1 115k

When connected, select Enter, and you will now be asked for a Password - type in your installer code (654321)

The screen should state Level 2, (you are now connected and can program the entire SED-SECURE from a HyperTerminal screen)

If you type **?P** you can now display the entire program settings.

To change any setting, select **ESC** at any stage, and then just type in your Program field followed by the data.

Example To change Master Code, which is field 01 type 01333333 then enter (333333 being the new master code) To read back, type 01 then Enter, and it will now display the contents of field 01=333333 To exit at any stage, select ESC and type **PWD**

Section 4 - Quick Program Set up Guide

Quick set up guide (for contact id via PSTN with 4G back up)

- 1. Program user codes 1-16 = fields 0401 to 0416
- 2. Set up your entry / exit times = fields 15 & 16
- 3. Check your zone types 1-8 3001 to 3008 and change if required
- 4. Enter a client code function 44
- 5. Set your receiver number function 4801, 4802 & 4803
- 6. Set your communication path function 51=.1,2
- i.e. PSTN, GSM or other
- 1. Set your daily test times if required function 40 & 41
- 2. Ensure you change the Installer Code and Master Code

Quick set up guide (for SMS reporting)

- 1. Program user codes 1-16 = fields 0401 to 0416
- 2. Set up your entry/exit times = fields 15 & 16
- 3. Check your zone types 1-8 3001 to 3008 and change if required
- 4. Enable SMS function 54=1 & 55=1
- 5. Program SMS phone number 4901=PH 1
- 6. Set your communication path function 51=.8 SMS
- 7. Set your daily test times if required function 40 & 41
- 8. Ensure you change the Installer Code and Master Code

Section 5 - Master / Installer Codes 1 - 3

Note: You must be in Program Mode to change fields

| Function | Purpose |
|----------|---|
| 01 | Master code 6 digits (Default 123456) |
| | Used to program user codes only |
| 02 | Install code 6 digits (Default 654321) Used to program system |
| 03 | Reserved for entry of factory code via SMS |

To factory default

Enter code via installer code (654321) Enter 99147369 ok

Section 6 - User Codes 1 - 16

Note: User codes are a 4 function field by 4 digit field

Example - to program user 1 in program mode would be 04011234

| Function | Purpose + Default |
|----------|-------------------|
| 0401 | User 1=1234 |
| 0402 | User 2 |
| 0403 | User 3 |
| 0404 | User 4 |
| 0405 | User 5 |
| 0406 | User 6 |
| 0407 | User 7 |
| 0408 | User 8 |
| 0409 | User 9 |
| 0410 | User 10 |
| 0411 | User 11 |
| 0412 | User 12 |
| 0413 | User 13 |
| 0414 | User 14 |
| 0415 | User 15 |
| 0416 | User 16 |

Section 7 - System Features 10 - 20

| Function | Purpose | Range Default |
|----------|---|-----------------|
| 10 | Firmware Version (read only) | Read only |
| 11 | Chime Mode Default=0 Allows entry / exit zones to beep when broken | 1 = on 0 = off |
| 12 | Code Pad DuressDefault=0This will cause a silent duress to default = 0 be sent when any user code 's last digit is incremented by 1 | 1 = on 0 = off |
| 13 | Single Key Arm (0# to arm) Default=1 By selecting Zero and hash on the Code Pad this will arm the system with user xyz | 1 = on 0 = off |
| 14 | Siren Pause on 1 st key Default=1 Upon the siren sounding, press any key and it will suppress the sirens for 5 seconds | 1 = on 0 = off |
| 15 | Exit Time (seconds)Default=10This sets the Exit time for entry / exit zones in seconds | 0 - 180 |
| 16 | Entry Time (seconds)Default=10This sets the entry time for entry exit zone in seconds | 0 - 180 |
| 17 | Siren Run Time (minutes) Default=5 This determines the siren run time in minutes | 1 - 5 |
| 18 | Code Pad Panic Siren enable Default=1 If Star, then Hash are pressed one after the other, this will cause a Code Pad panic to be sounded | 1 = on 0 = off |
| 19 | Enable Siren Lock out Default=1 This will lock out zone once enabled | 1 = on 0 = off |
| 20 | Site ID Number 1-10 (Char) | 00000000 |
| | | |
| | | 1 |

Section 8 - System Features 21 - 29

| 21Chubb medical (not used) Requires special version of code02211485 control module relay 1 via serial type or code pad, this will display a number of settings To set off time for relay 1 example type 22111hhmm i.e. 22111400 Turns off at 2pmTo set on time for relay 2 example 2212hhmm ie 2212130 Turns On at 2pm |
|--|
| Requires special version of code2211485 control module relay 1 via serial type2212or code pad, this will display a number of2213settingsTo set off time for relay 1 example type2211hhmm i.e. 22111400 Turns off at 2pmTo set on time for relay 2 example2212hhmm ie 2212130 Turns On at 2pm |
| 2211485 control module relay 1 via serial type2212or code pad, this will display a number of2213settingsTo set off time for relay 1 example type2211hhmm i.e. 22111400 Turns off at 2pmTo set on time for relay 2 example2212hhmm ie 2212130 Turns On at 2pm |
| 2212 2213or code pad, this will display a number of settings To set off time for relay 1 example type 2211hhmm i.e. 22111400 Turns off at 2pmTo set on time for relay 2 example 2212hhmm ie 2212130 Turns On at 2pm |
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| To set on time for relay 2 example 2212hhmm ie 2212130 Turns On at 2pm |
| To set on time for relay 2 example 2212hhmm ie 2212130 Turns On at 2pm |
| 2212hhmm ie 2212130 Turns On at 2pm |
| |
| |
| To set name type 2213name |
| le 2213lights front |
| 2221 485 control module relay 1 via serial type |
| 2222 or code pad this will display a number of |
| 2223 settings |
| I o set off time for relay 1 example type |
| 2221nnmm i.e. 22111400 Turns off at 2pm |
| To get on time for relay 2 example |
| 2222bhmm io2212120 Turne On at 2pm |
| |
| To set name type 2213name |
| ie2223lights front |
| 24-23 Reserved |
| 29 Zone names , must be done via Serial |
| Terminal or via SMS |
| Example |
| 2901Name for zone 1 |
| 2902Name for zone 2 |
| |
| A total of 16 zone names can be set |
| |

Section 9 - Zone Types 30 - 33

This section will deal with how zones are set up and will behave. The first section will be zone types. All zone fields require a 2 digit sub-field. **Example:** 30011 would be the programming of zone 1 now =type 1

| 30zz Zones 1-8 | Zone Types 0 =disabled 1 = entry exit (std entry/exit timer) 2 = handover (must trigger entry/exit first to delay) 3 = standard secure (alarms when armed - sets off siren) 4 = silent (alarms when armed - no siren) 5 = 24 hr audible (triggers siren off 24 hrs zone) 6 = 24 hr silent (dialer only on 24 hrs zone) 7 = key switch (arms system via zone pulse) 8 = make input dialer (make zone a dialer input no visual on KP) 9 = key switch (arms system via zone violation - maintained) | Default Zones 1 = 1 2 = 3 3 = 3 4 = 3 5 = 3 6 = 3 7 = 3 8 = 3 |
|----------------------|---|--|
| 31zz Zones 1-8 | Enable multi-break Default =0 This enables or disables the zones from retriggering | 1 = on 0 = off |
| 32zz Zone 1-8 | Input typeDefault =30 =analogue1 = non terminated normally closed2 = non terminated normally open3 = Terminated EDOL | 0 – 3 |
| 33ZZ | Reserved | |

This section will deal with how zones are set up and will behave. The below settings are global and effect all zones .

| Function | Purpose | Range +Default |
|----------|---|----------------|
| 36 | Input contact denounce time (20ms steps, default 5=100ms) | 25 |
| 37 | Termination resistor value, for inputs 1-8 input 0=1k0 1=1k2 2=1k5 3=1k8 4=2k2 5=2k7 6=3k3 7=3k9 8=4k7 9=5k6 10=6k6 11=8k2 12=10k 13=12k 14=15k 15=18k 16=22k | Default =12 |
| 38 | Termination Resistor value, doubled input, low value 0-16 (default=12=10k) primary input | 12 |
| 39 | Termination Resistor value, doubled input, high value 0-16 (default=15=18k) doubled input | 15 |

Section 11 - Test Reports 40 - 43

| Function | Purpose | Range + Default |
|----------|---|-----------------------------|
| 40 | Test report time (hours)Default=24hUsed for on board dialler test | 1 - 168 |
| 41 | Time to first report (hours)Default =25Used for daily test call determine call before first test | 1 - 168 |
| 42 | Report isolate zonesDefault =1This function determines that when a zone is Isolated it shall be reported | 1=ON 0=OFF |
| 43 | Auto isolate modesDefault =2This function determines by mode if a user attempts to arm the system , by any arming method the follow shall appliesMode 0= No auto isolateMode 1 = auto isolate at end of exit time Mode 2 = no auto isolate but will not allow system to arm , while any zone is unsealed | Modes 0 1 2 |

Section 12 - Communications 44 - 50

| Function | Purpose | | Range +Default |
|-------------------------------|---|-------------------|----------------|
| 44 | Account code 4 digit (0000 = disable) 4 digit account code used by most contact ID receivers | | 0001-9999 |
| 45 | Reserved | | |
| 46 | Report restores | Default=1 | 1=ON 0=OFF |
| 47 | Enable Open / Close reports | Default=1 | 1=ON 0=OFF |
| 4801 ph 4802 ph 4803 ph | Receiver phone numbers pp= 01 This is for dtmf for contact ID max 16 number for a pause use XYZ Example 480113456789 | -03 digits per | 16 digits |
| 4901 ph to 4908 ph | SMS - set up for SMS reporting Numbers pp= 01-08 Example 49010412123456 Note: You also need to set 54 and 55 | Default=0 | 10 digits |
| 50 | SMS Security Access This, when set, only allows numbers th have been programmed into fields 49 to remote access the system | Default=0 lat | 1=ON 0=OFF |

Section 13 - Test Report Timing 51 - 65

| Function | Purpose | | Default |
|----------|---|-------------------------|------------|
| 51 | PurposeReport path (up to 8 paths, see beling1 = PSTN (DTMF Contact-ID)2 = 4G voice (DTMF Contact-ID)3 = Sec Eng GPRS4 = Sec Eng Ethernet5 = Horizon GPRS6 = Horizon Ethernet7 = Serial Sec Eng | low) | 1,2 |
| | 8 = SMS enable 9= Email enable <i>To set the order in which you would li</i> EXAMPLE:12=PSTN primary and GSM | ke to work secondary | |
| 52 | SEC ENG High Security IP/GPRS e engine | ncryption Default=0 | 1=ON 0=OFF |
| 53 | GSM / 4G fail time 0-60mins | Default=8 | 0-60mins |
| 54 | SMS System alarm 0=none 1=all 2=all except test | Default=0 | 0,1,2 |
| 55 | SMS send zone alarms via SMS 1=Enable 0=Disable | Default=0 | 1=ON 0=OFF |
| 56 | GSM receive audio level Used to adjust audio level of GSM | Default=0 | 1 – 9 |
| 57 | GSM transmit audio level Used to adjust audio level of GSM | Default=0 | 1 – 9 |
| 58 | GSM/4G modem bands selection 581= force GSM band 582= force to 4G 583= auto select 584= auto but pref GSM 585= auto but pref 4G | Default=3 | 3 |
| 59 | Network technology (read only) | | 1=GSM 2=4G |
| 60 | Power-on restore Unit shall power up in the state it was in | Default=1 depowered | 1=ON 0=OFF |
| 61 | Siren output enable | Default=0 | 1=ON 0=OFF |

Section 14 - System Settings 65 - 100

| Function | Purpose | | Range + Default |
|----------|---|------------------------------|-----------------|
| 62 | Siren sounder type 0= hew haw (horn 8 ohm speaker) 1= woop woop (horn 8 ohm speaker) 2= woop woop (horn 8 ohm speaker) 3=12v DC output | Default = 0 | 0-3 |
| 63 | Siren burst on Arm This enables the siren to burst for ½ a seco time of the system | Default = 0 and upon exit | 1=ON 0=OFF |
| 64 | Strobe test on Arm When armed and after exit time trigger for 1 | Default = 0 second | 1=ON 0=OFF |
| 65 | Output 3 function (this output sinks to ground 250ma) 0= off for sms control 1= follow siren 2= follow strobe 3= follow armed stated | Default = 0 | 0-3 |
| 67 | Web server enable For use with the IP Interface 7=enable 0=disable | Default = 7 | 7 |
| 68 | Enable NEXIS Platform | Default = 0 | 1=ON 0=OFF |
| 69 | Dial Tone Detection 0 = Disable 1 = Enable | Default = 1 | 1=ON 0=OFF |
| 70 | Disable battery test & AC power 0 = Disable 1 = Enable | fail | 1=ON 0=OFF |
| 71 | 4 State monitoring | Default = 0 | 1=ON 0=OFF |
| 72 | Disable self test restore 0 = Disable 1 = Enable | Default = 1 | 1=ON 0=OFF |
| 73 | GSM / 4G modem Enable Disable | Default =1 | 1=ON 0=OFF |

Section 14 - System Settings 65 - 100

| Function | Purpose | Range + Default |
|----------|---|------------------------------------|
| 74 | This can set the on board clock Example to set date yyyymmdd type 740120100101 Example to set time hhmmss type 130000 Example region 1 | 01= time 02 =date 03 –region |
| | | |
| | | |
| | | |

Section 15 - Report Codes - Contact ID SED-SECURE

Contact ID event codes - SED-SECURE

| Туре | CID Code | User / Point |
|----------------------|----------|------------------------|
| Alarms 1-8 | 140 | Zone number 1- 8 |
| Panic | 120 | Std |
| Duress | 121 | By user number |
| AC Fail | 301 | Std |
| Low battery | 302 | Std |
| System Reset | 305 | Std |
| Battery Missing | 311 | Std |
| Comms faults GSM/4G | 350 | 1=Sim 2,3=Signal/Modem |
| Comms faults general | 354 | 1=PSTN 2=GSM |
| Daily Test | 602 | Std |
| User Open / Close | 401 | User 1-16 |
| Quick Arm | 401 | User 31 |
| Bypass | 570 | Zone Number 1- 8 |

Section 16 - Report Codes - Contact ID NEXIS

Contact ID event codes - NEXIS via SECURE

| Туре | CID Code |
|-------------------------------------|----------|
| Zone 49 = Gas internal alarm | 140 |
| Zone 50 = Gas external alarm | 140 |
| Zone 51 = Efield Skimming alarm | 140 |
| Zone 52 = Drill Mat alarm | 140 |
| Zone 53 = Gas fault internal | 140 |
| Zone 54 = Gas fault external | 140 |
| Zone 55 = Efield fault | 140 |
| Zone 56 = Efield door inhibit alarm | 140 |
| Zone 57 = Shadow Shield fault | 140 |
| Zone 58 = NEXIS power fault | 140 |
| Zone 59 = Program tamper | 140 |
| Zone 60 = Spare | 140 |
| Zone 61 = Comms fail NEXIS | 140 |

Section 17 - SMS Control Features Arm / Disarm

If required, you can set up and control the SED-SECURE from a mobile phone. **?S** will provide you status.

(This will sms basic status information direct to mobile phone)

<u>Programming</u> of the SED-SECURE via SMS to program any fields via SMS, type the field into a message ie. to reprogram function.

(Note: Use a space between arm and user code)

| TO DISARM | via SMS | (disarm user code) | Disarm 1234 |
|-----------|---------|--------------------|-------------|
| TO ARM | via SMS | (arm user code) | Arm 1234 |

Section 18 - SMS - Reporting via SMS

To set the **SED-SECURE** up so you can report alarms via SMS, you will need to program the following: 1/ Functions 4901 (mobile numbers) up to 8 mobiles 2/ Functions 54 = 2 and 55 =1

Section 19 - SMS System Messages

You can SMS the SED-SECURE for Control Indications and System Settings

?s = system status

Note past this you need to send it a

?gsm= GSM and 4G status

?P, followed by function number ie ?P10 this will now display programming from function 10 onward

?h will display basic history of last 5 events

?hc will display history of last 5 events

?hc10 will display history of last 10 events

Section 20 - SMS Panel Programming

Panel Programming via SMS

NOTE: The system must be disarmed, and you must have sent the unit an SMS first 02 installer code, you will get a response - please read below:

TO PROGRAM any field via SMS, you must send the SED-SECURE an SMS first to gain entry to program, ie.

01 MASTER code for user codes only 02 INSTALLER code for major changes Default (01123456) Default (02654321)

Example: SMS 02654321

If you gain access, you will receive a response of (installer access for 10mins)

Example: If you are changing user codes only, you would SMS first **01master code first (01123456)** You will then receive the following response -(installer access for 10mins)

For major program changes via SMS, you need to go into installer mode 02 INSTALLER code for major changes (02654321)

You can only change 1 item at a time, Example: once access has been gained, if you wish to view field - zone 1

You would SMS 3001 you will get a response, 1 indicating it has been set to 1, which would = Entry / Exit

Example: To change the field, you would SMS the following: (change zone 1 to hand over type 2) SMS the following, 30012 this will change zone 1 to Type 2

Section 21 - System Testing

With the SED-SECURE programmed and set up, you can now perform basic testing -

Basic Alarm Testing

1/ Arm system and trip alarms2/ Disarm system and trip alarms

If your Pathing is set (see function 51), you will need to test this. Please see below:-

Testing PSTN

1/ Arm system (wait for exit time to expire)
2/ Trip zone 1 – 8
(does OH light come on hard and do sirens go Off?)
3/ Disarm system

Testing 4G

Disconnect the PSTN line 1/ Arm system 2/ Trip zones 1-8 (The OH light should now flash to indicate dialing, via 4G)

Path Testing

1/ Disconnect PSTN and send alarms through. The unit should attempt to dial out on PSTN but revert to GSM after it has detected PSTN has failed The SED-SECURE will send a 354 to the control room upon PSTN fail 2/ Reconnect PSTN

Section 22 - Client Guide - How to Arm, Disarm & Isolate



Arm (4 digit user & #) buttons

To Arm your system 1/ Ensure all your zones are sealed 1-8 2/ Enter your 4 digit user code followed by the **Arm** button Once done, the Arm light will come on followed by the exit beeper

Quick Arm

Quick Arm (0 & Arm) buttons

To quick Arm your system 1/ Ensure all your zones are sealed 1-8 2/ Pressing **0** and **Arm** button will quick arm Once done, the Arm light will come on followed by the exit beeper

Disarm

Disarming (4 digit user & Disarm button)

To Disarm, enter your 4 digit user code followed by the **Disarm** button

Isolate

Isolate Zones

To isolate a hit **Menu** button Enter a 4 digit user code and select isolate enter the zones you wish to isolate followed by the **Change** key

Note: Zones will only remain isolated during the Arm process. Once Disarmed, they will deisolate.

Section 21 – Output control

The SED-Secure allows you to control the on board output 3 via SMS Or if you have a 4 way I/O output board it uses outputs 5,6,7,8

How to sms and control these outputs

Example for Output 3

Via SMS Type the following Out3on to turn On Out3off to turn Off Out3on5 (Turns output 3 on for 5 seconds) Out3on5m (Turns output 3 on for 5 minuets)

Example for I/O board

If you have an I/O expander plugged in, The output control starts at Output 5 on-ward

And the following example shall apply Via **SMS** Type the following **Out5on** to Turns On **Out5off** to Turns Off **Out5on5** (Turns output 3 on for 5 seconds)

You can always check the status of the Output command by **sms** the unit **?Out**