

SEC-ENG

SYSTEMS

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EGIS 4G

SETUP & USER GUIDE



Australian designed and manufactured

ACMA SARS & EMC CERTIFICATION

EN 62209-1 :2006, EN 62209-2 :2010, AS/NZS CISPR 22:2009

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TERMS AND CONDITIONS

1.1 The Product, EGIS (referred to as product or device)

The EGIS product is designed and sold to operate as a man-down lone worker system.

1.2 Provisioning of Communications & Connections

The EGIS device requires mobile network coverage and valid phone connection to operate.

It must be fitted with an unlocked mobile phone SIM card and have the following services activated:

- SMS
- Voice
- GPRS/3G data service (tracking server application)

The network connection and proper maintenance of the EGIS device is the sole responsibility of the owner or their nominees. All functions are set out in this user guide.

1.3 Testing and Maintenance

The owner of the EGIS product must ensure that the device is tested on a regular basis as instructed in the testing schedule set out in this user guide, to ensure the product is fully operational and the network service provider is providing a valid connection.

1.4 Charging of the EGIS Product

It is the responsibility of the owner to ensure the EGIS unit is charged on a regular basis to maintain operation, as set out in the charge schedule of this user guide.

1.5 GPS Location Information

The EGIS product requires GPS satellite signal to accurately report the location of the unit. Due to limitations of the GPS satellite technology this may require the EGIS to be outside of any building structure to acquire GPS signal lock.

1.6 Reporting of Faulty or Damaged Product

It is the responsibility of the owner to immediately report any faults found with the product and to isolate the product from being used or operated until the fault is rectified. If a fault is found, it is the responsibility of the owner or their nominees to ensure the unit is returned to a nominated repair centre for repair.

1.7 Intended Use of the EGIS Product

It is the responsibility of the owner to ensure the EGIS product is used for the purpose for which it was designed. Suppliers and authorised distributors cannot be held liable or responsible for the misuse of the product.

1.8 Supplier Responsibilities and Obligations

The supplier and authorised distributors have responsibilities and obligations under the relevant laws, including: The Competition and Consumer Act, including the Australian Consumer Law & applicable laws, regulations and codes.

PRODUCT WARRANTY

This product is covered by a 12 month, **back-to-base warranty** from the date of purchase and proof of purchase should be supplied. The warranty does not cover damage that has resulted from the improper installation or use of the product. The warranty does not cover damage by lightning, product misuse, network failures, communication failure, electrical surges or acts of God.

LIMITATION OF LIABILITY

Sec-Eng Systems Pty Ltd products are intended to reduce the risk of loss and damage in which the goods are installed or used 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.

PRE-PROGRAMMED SETTINGS

The settings below have been configured by Sec-Eng Systems as per the customer's request. If any changes are required, refer to the programming section.

H/SOS Button

Voice number allocated: _____
SMS number allocated: _____
SMS message allocated: _____



P1 Button

Voice number allocated: _____
SMS number allocated: _____
SMS message allocated: _____



P2 Button

Voice number allocated: _____
SMS number allocated: _____
SMS message allocated: _____



P3 Button

Enable/Disable Tilt (3 button presses): Y / N



Man Down (Tilt) Alarm

Voice number allocated: _____
SMS number allocated: _____
SMS message allocated: _____



Dead Man (No Movement) Alarm

Voice number allocated: _____
SMS number allocated: _____
SMS message allocated: _____



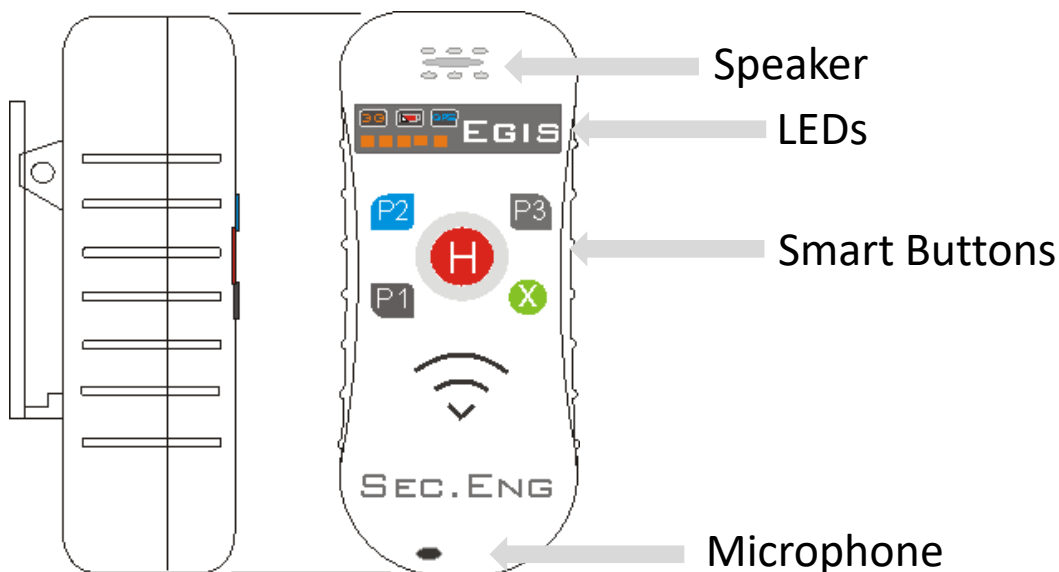
EGIS OVERVIEW

The EGIS device is a multifunctional Man-Down system which is designed, developed and manufactured in Australia by Sec.Eng Systems.

The system operates on the mobile phone network and requires a micro SIM card for communications purposes.

EGIS can be configured to perform the following functions:

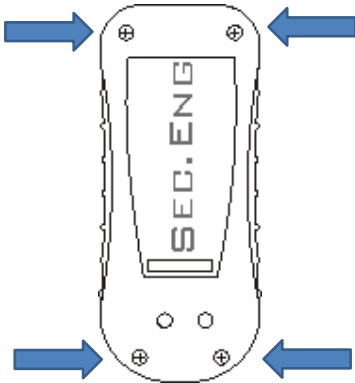
- Indicate and report if the unit is in a tilted position
- Indicate and report if no movement is detected
- Report duress alarms using the 4 programmable buttons (SOS/H, P1, P2, P3)
- Auto dial a phone number when an alarm condition is generated
- Send a customised SMS message to multiple mobile numbers
- Report its current GPS location and status



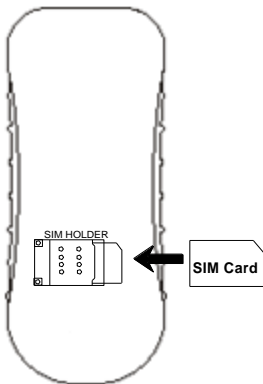
SIM CARD INSTALLATION

Please ensure the SIM card is not PIN locked before fitting into the EGIS.

1. Remove the 4 rear screws to open the back cover.



2. Insert the SIM card as shown, making sure to push all the way in to the holder. It's also recommended to put a piece of sticky tape over the holder to prevent the SIM card from moving.



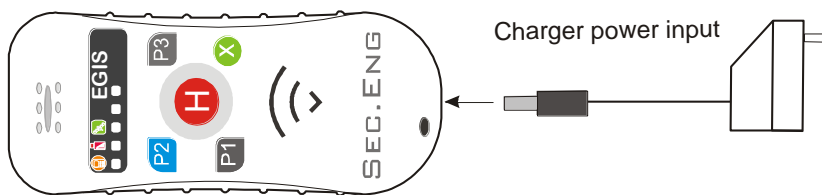
3. Once the SIM card is fitted, re-attach the rear cover and tighten with 4 screws.
4. Place the EGIS on charge to power up.

EGIS CHARGING

EGIS will indicate when it is ON and OFF charge by generating a tone and vibrating every time it is placed or removed from the charger.

There are 3 ways to charge the EGIS, depending on what has been supplied or requested.

- Single wall plug charger



Note : Charging time required is a min of 6 hrs per day in 24 hr period

- Single wall mount charger (must be wall mounted)



- 5 & 10 bay wall mount charge stations (must be wall mounted)



LED INDICATION

There are two rows of LED indicators on the EGIS unit: mode and level.



The top 3 mode LEDs indicate the following:


Mobile Signal  Battery Charge  GPS Signal 

The lower LEDs indicate the level/strength of the mode currently selected.



Use the cancel button to toggle between the mode positions.
(see the following page)



Charging: When the EGIS is charging the battery LED  will continually flash and the bottom row of LEDs will indicate the charge progress.

Full Charge: Once charging is complete, the battery LED will be constantly ON.

Low Battery: If low battery is detected, EGIS will indicate this by a double tone as well as flashing the battery LED 3 times.

No SIM: In the event no SIM card is present, when the Mobile Signal mode is selected the two outer level LEDs (1 & 5) will flash.



No Network: If the unit is unable to register on the mobile network, all 5 level LEDs will flash when the Mobile Signal mode is selected.

LED INDICATION (Using The Cancel Button)

The multifunction cancel (x) button can be used to end phone calls, clear alarms and toggle between the LED indication modes.



Phone Call: While in the process of making a voice call, pressing the cancel button. This will end the call.

Clear Alarms: If the EGIS is in alarm condition, press and hold the cancel button for 3 seconds to clear the local alarm. A double beep tone will sound when cleared.

LED Indication: When not in a call, a single press of the cancel button will toggle between the 3 status indication modes:

1. Mobile (3G/4G) signal strength
2. Battery charge level
3. GPS (Satellite) signal level

Note: The following test should be performed before using the product
With the EGIS removed from charge, test the following:

1 Press - indicates mobile signal strength

Example - 3 bars of mobile signal



2 Presses - indicates battery level

Example - 2 bars of battery charge



3 Presses - indicates GPS signal level

Example - 5 bars of GPS signal

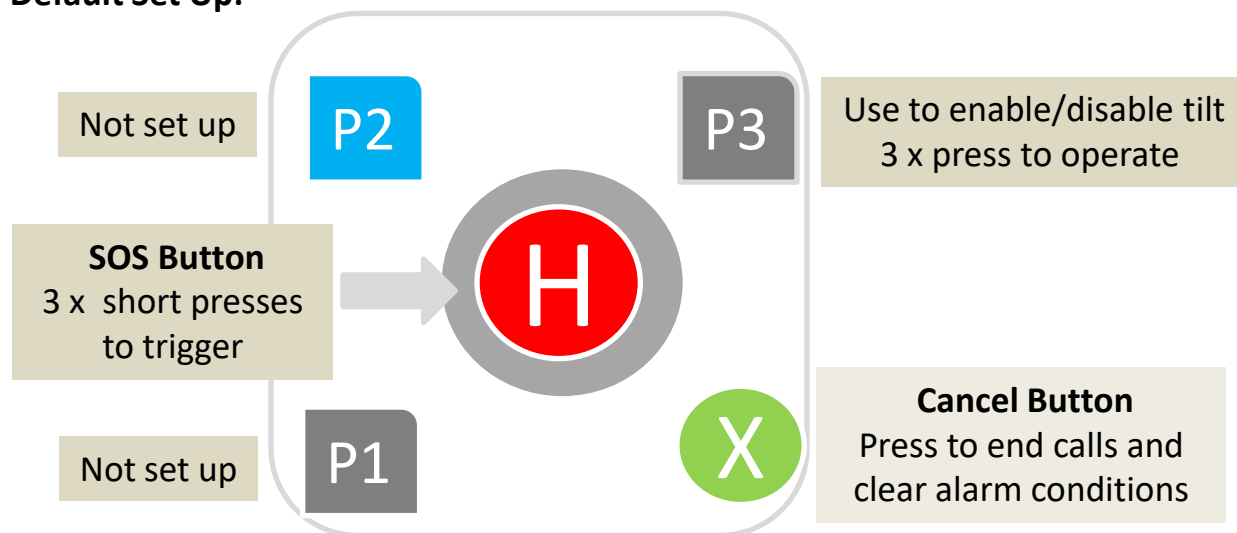


SMART BUTTONS OVERVIEW

The EGIS features 4 programmable buttons (SOS/H, P1, P2, P3) which can be set up for the following parameters:

- Number of button presses
- Tone sound upon pressing
- Vibration type upon pressing
- Send out to SMS message
- Call a phone number (voice call)
- Send an IP message via GPRS and/or SMS, to a dedicated server for reporting of GPS location and status

Default Set Up:



PLEASE NOTE:

If specifically requested by the customer, Sec-Eng Systems will pre-configure the unit, otherwise default settings will apply.

The set up of the Smart Buttons can be customised using the SMS programming method described in the following sections of this guide.

SMS PROGRAMMING

When an EGIS is active and connected to the mobile network, SMS messaging can be used to view and edit settings of the unit.

Basic SMS commands are sent to the mobile number of the SIM card fitted in the EGIS. That EGIS will then respond to the user's mobile phone with either a status report or a setting change confirmation.

All parameters listed in this guide can be viewed and modified using this programming method.

- To check the current settings of a programmable field, send an SMS starting with the symbol ? followed by the field name, see the following examples:

?S request for a general status report

?SOS request for programming fields relating to the SOS button

?Audio request for programming fields relating to audio volume

?S should be used as an initial test to see if the EGIS is responsive to SMS. It provides a general indication of the current status of the unit.

Example:

?Audio will return a message with the following information

Txvol=5

Rxvol=5

- To change the settings of a particular field, send an SMS stating the field name followed by a space character and then the new setting required.

Using the example above

Txvol 8 will set Txvol to 8 (transmit volume/mic volume)

The EGIS will send another SMS confirming this change.

SMART BUTTONS CONFIGURATION

Each button has a number of settings which can be customised, such as:

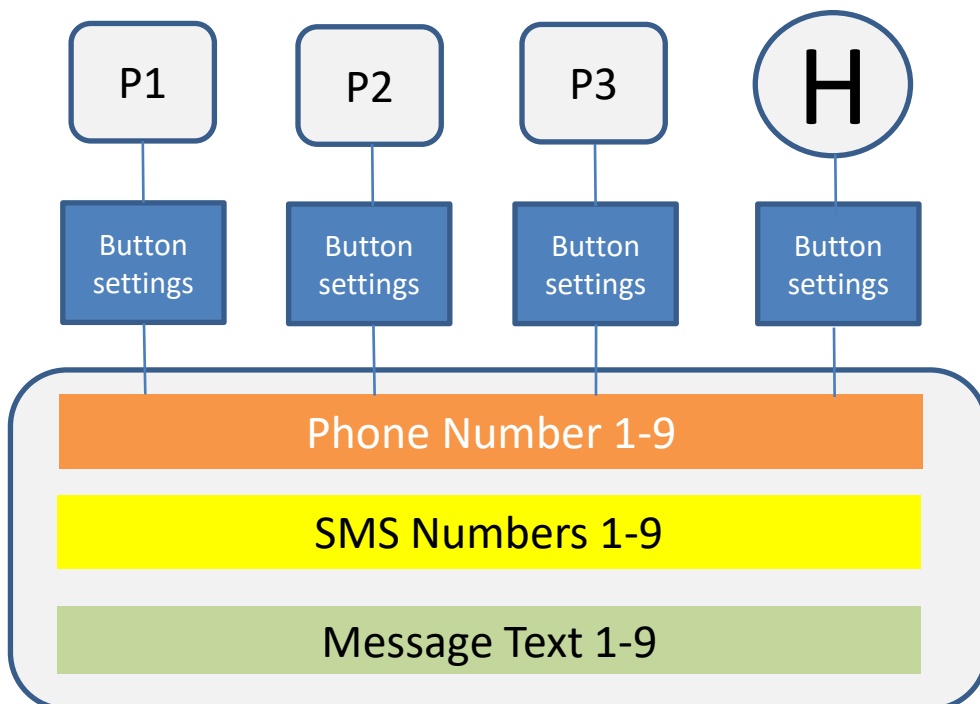
- The number of presses it takes to trigger
- The tone sound and vibration pattern to indicate a trigger
- When triggered, what action is taken
i.e. dial a number and/or send an alarm SMS message

Each button is configured separately, however there are some shared parameters that must be set first.

These are the three master lists which hold the phone numbers and messages that the EGIS refers to when reporting alarms:

- Phone Number list
- SMS Number list
- Message Text list

The first step of programming is to set up these three lists



STEP 1 Setting the Phone Number list (Voice Calls)

Set up the Phone Number list if the EGIS is required to make voice calls upon going into an alarm condition. This list can hold up to 9 different phone numbers.

Use the following commands to view and edit the Phone Number list.

- To view the current list entries: **?PH**
- To enter a new number or overwrite an existing one: **PHx (phone number)**
Single space character between list location and phone number

x = list location (1-9)
- To delete a listed phone number: **PHx 0**
Single space character between list location and 0

Example: to set **PH1** with the number **04123456**, use the SMS command:

PH1 04123456 (note the single space character between PH1 and the number)

To set phone numbers PH2-PH9 use same example.

Rotational Dial Option, when using the rotational dialling feature, where the EGIS will dial an alternative number if the call is not answered, multiple phone number must be stored in Ph1-Ph9, See page 13.

SMS ?Ph to view the list below		
Function	Settings	Default
Ph1	Phone number 1 location	0
Ph2	Phone number 2 location	0
Ph3	Phone number 3 location	0
Ph4	Phone number 4 location	0
Ph5	Phone number 5 location	0
Ph6	Phone number 6 location	0
Ph7	Phone number 7 location	0
Ph8	Phone number 8 location	0
Ph9	Phone number 9 location	0

STEP 2 Setting the SMS Number list

Set up the SMS Number list if the EGIS is required to send out SMS messages in an alarm condition. This list can hold up to 9 different mobile numbers.

Use the following commands to view and edit the SMS Number list.

- To view the current list entries:

?SMS

- To enter a new number or overwrite an existing one:

SMSx (mobile number)

x = list location (1-9)

Single space character between list location and phone number

- To delete a listed mobile number:

SMSx 0

Single space character between list location and 0

Example: to set **SMS1** with the number **04123456**, use the command
SMS1 04123456

Set SMS2-SMS9 in the same way if required.

SMS ?SMS to view the list below		
Function	Settings	Default
SMS1	SMS mobile number 1 location	0
SMS2	SMS mobile number 2 location	0
SMS3	SMS mobile number 3 location	0
SMS4	SMS mobile number 4 location	0
SMS5	SMS mobile number 5 location	0
SMS6	SMS mobile number 6 location	0
SMS7	SMS mobile number 7 location	0
SMS8	SMS mobile number 8 location	0
SMS9	SMS mobile number 9 location	0

STEP 3 Setting the Message Text list (for SMS)

Set up the Message Text list to include descriptive text in the SMS that the EGIS will send. This list can hold up to 9 different messages.

Use the following commands to view and edit the Message Text list.

- To view the current list entries:

?MSG

- To enter new text or overwrite an existing message:

MSGx (text)

Single space character between list location and message text

x = list location (1-9)

- To delete the listed message text:

MSGx 0

Single space character between list location and 0

Example: to set **MSG1** with the text **Test12345**, use the command
MSG1 Test12345

Set MSG2-MSG9 in the same way if required.

SMS ?MSG to view the list below		
Function	Settings	Default
Msg1	Custom message text location 1 (max 100chr)	0
Msg2	Custom message text location 2 (max 100chr)	0
Msg3	Custom message text location 3 (max 100chr)	0
Msg4	Custom message text location 4 (max 100chr)	0
Msg5	Custom message text location 5 (max 100chr)	0
Msg6	Custom message text location 6 (max 100chr)	0
Msg7	Custom message text location 7 (max 100chr)	0
Msg8	Custom message text location 8 (max 100chr)	0
Msg9	Custom message text location 9 (max 100chr)	0

STEP 3 Setting the Messages Text list (for SMS)- Continued

The EGIS is capable of providing its GPS location in the SMS messages reported. There are a number of formats in which this information can be presented including GPS co-ordinates and Google Maps link, as well as other custom protocols set up by Sec-Eng Systems for alarm and automation system.

To add GPS information to the message, insert ***y*** in front to the message text programmed in the previous page.

MSGx *y* (text)

y = GPS format option (1-5)

Example: to set **MSG1** with the text **Test12345** and include a Google map link of the location, use the command:

MSG1 *2* Test12345

MSGx	Operation	Example
MSGx *1*	asset id , lat , lon	Lat:-34.01.20461 Lon:+151.07.22942 Alt:15
MSGx *2*	Google maps pointer	http://maps.google.com/?q=-34.03096,151.12033
MSGx *3*	Ascom message 1	ALARM! Id:SHAUNC Imei:358901046719602 Time:2015.03.09 01:38:45 Fix:-34.03098,151.12034 Sat:11 Op:50501 Cell:00D8502E Sig_Lvl:10 Bat_Lvl:100 test 3
MSGx *4*	Ascom dura suit	ALARM! Id:SHAUNC Imei:358901046719602 Time:2015.03.09 01:38:45 Fix:-34.03098,151.12034 Sat:11 Op:50501 Cell:00D8502E Sig_Lvl:10 Bat_Lvl:100 test 3
MSGx *5*	Sec-Eng Custom 1	*5,SHAUNC,2015.03.09,12:41:11,- 34.03096,151.1204,0,test 5



H/SOS BUTTON SET UP

The H button, also referred to as SOS, is programmed under the parameter name SOS.

All programmable functions relating to this button are listed in the table below.

The sections highlighted in grey must be set up to enable the SOS button.

Example: To assign the number stored in location 1 of the Phone Number list (page 13) to be dialled when the SOS button is triggered, use the command:

SOSph 1 *Single space character between SOSph and 1*

Example: To allocate the mobile numbers stored in locations 1 & 3 of the SMS Number list (page 14) to the SOS button, use the command:

SOSsms 13 *Space character NOT required between 1 and 3*

Example: To include the text stored in location 4 of the Message Text list (page 15) in the SMS sent, use the command: **SOSmsg 4**

Note: To add GPS coordinates of the location in the message see page 15.

SMS ?SOS to view the settings below

FUNCTION	SETTING	DEFAULT	Global sub field
SOSfun	Sets the functionality of the button 0= Enables Telephone capabilities 1= Enables GPRS communications	1	
SOSselcall	Provides a cell call tone when a valid signal is received at the tracking server (used when GPRS polling is enabled)	2	
SOSbtn	Sets number of presses required to trigger 1,2,3 press required. This can be long (L) or short (S) press	2 s	Number followed by L or S
SOStime	Sets the time interval for multi button presses 5=500msec 10=1 sec 20=2sec	20	
SOSsnd	Sets the sound that is generated when triggered Selectable 1-20 (0=OFF)	1	
SOSvib	Sets the vibration pattern when triggered Selectable 1-20 (0=OFF)	4	
SOSph	Sets the phone number the unit will call upon a trigger Selectable 1-9 from the Phone Number list or see rotational dial section 24 if required	0	See page 13 (Step 1)
SOSsms	Sets the mobile numbers to SMS (up to 8 numbers can be added) Selectable 1-9 from the SMS Number list		See page 14 (Step 2)
SOSmsg	Sets the message text included in the SMS sent Selectable 1-9 from the Message Text list GPS location can be added using the *y* command (see page 16)	0	See page 15 (Step 3)
SOSautoClr	Auto clear SOS alarms from Pegasus server after a set time (used when GPRS polling is enabled) Selectable 1-120minuits (0=OFF)	0	

P1 BUTTON SET UP

The P1 button can be programmed to make a voice call and/or SMS when triggered.

All programmable functions relating to this button are listed in the table below.

The sections highlighted in grey must be set up to enable the P1 button.

Example: To assign the number stored in location 3 of the Phone Number list (page 13) to be dialled when the P1 button is triggered, use the command:

P1ph 3 *Single space character between P1ph and 3*

Example: To allocate the mobile numbers stored in locations 3, 5 & 6 of the SMS Number list (page 14) to the P1 button, use the command:

P1sms 356 *No space character required between 3,5 and 6*

Example: To include the text stored in location 2 of the Message Text list (page 15) in the SMS sent, use the command: **P1msg 2**

Note: To add GPS coordinates of the location in the message see page 15.

SMS ?P1 to view the settings below			
FUNCTION	SETTINGS	DEFAULT	GLOBAL SUB -FIELD
P1fun	Sets the functionality of the button 0 = Use for Telephone capabilities 1 = Use for GPRS communications 2 = Use to Enable/Disable Tilt 3 = Use to Enable/Disable Dead man 4 = Use to Enable/Disable Welfare check	0	
P1selcall	Provides a cell call tone when a valid signal is received at the tracking server (used when GPRS polling is enabled)	0	
P1btn	Sets number of presses required to trigger 1,2,3 press required	1	
P1time	Sets the time interval for multi button presses 5=500msec 10=1 sec 20=2sec	20	
P1snd	Sets the sound that is generated when triggered Selectable 1-20 (0=OFF)	1	
P1vib	Sets the vibration pattern when triggered Selectable 1-20 (0=OFF)	4	
P1ph	Sets the phone number the unit can call upon a trigger Selectable 1-9 from the Phone Number list or see rotational dial section 24 if required	0	See page 13 (Step 1)
P1sms	Sets the mobile numbers to SMS (up to 8 numbers can be added) Selectable 1-9 from the SMS Number list		See page 14 (Step 2)
P1msg	Sets the message text included in the SMS sent Selectable 1-9 from the Message Text list GPS location can be added using the *y* command (see page 16)	0	See page 15 (Step 3)

P2 BUTTON SET UP

The P2 button can be programmed to make a voice call and/or SMS when triggered.

All programmable functions relating to this button are listed in the table below.

The sections highlighted in grey must be set up to enable the P2 button.

Example: To assign the number stored in location 2 of the Phone Number list (page 13) to be dialled when the P2 button is triggered, use the command:

P2ph 2 *Single space character between P2ph and 2*

Example: To allocate the mobile numbers stored in locations 2, 4, 6 & 8 of the SMS Number list (page 14) to the P2 button, use the command:

P2sms 2468 *No space character required between 2, 4, 6 & 8*

Example: To include the text stored in location 1 of the Message Text list (page 15) in the SMS sent, use the command: **P2msg 1**

Note: To add GPS coordinates of the location in the message see page 15.

SMS ?P2 to view the settings below			
FUNCTION	SETTINGS	DEFAULT	GLOBAL SUB -FIELD
P2fun	Sets the functionality of the button 0 = Use for Telephone capabilities 1 = Use for GPRS communications 2 = Use to Enable/Disable Tilt 3 = Use to Enable/Disable Dead man 4 = Use to Enable/Disable Welfare check	0	
P2selcall	Provides a cell call tone when a valid signal is received at the tracking server (used when GPRS polling is enabled)	0	
P2btn	Sets number of presses required to trigger 1,2,3 press required	1	
P2time	Sets the time interval for multi button presses 5=500msec 10=1 sec 20=2sec	20	
P2snd	Sets the sound that is generated when triggered Selectable 1-20 (0=OFF)	1	
P1vib	Sets the vibration pattern when triggered Selectable 1-20 (0=OFF)	4	
P2ph	Sets the phone number the unit can call upon a trigger Selectable 1-9 from the Phone Number list or see rotational dial section 24 if required	0	See page 13 (Step 1)
P2sms	Sets the mobile numbers to SMS (up to 8 numbers can be added) Selectable 1-9 from the SMS Number list		See page 14 (Step 2)
P2msg	Sets the message text included in the SMS sent Selectable 1-9 from the Message Text list GPS location can be added using the *y* command (see page 16)	0	See page 15 (Step 3)

P3 BUTTON SET UP

The P3 button can be programmed to make a voice call and/or SMS when triggered is set up in the same manner as P1 and P2 buttons (page 18-19). Alternatively P3 can be used to enable and disable the Tilt (Man Down) or the Dead Man functions.

To enable the tilt function control, set **P3fun** to **2** (For dead man set to **P3fun** to **3**).

Once this is done, 3 fast presses of the P3 button will enable/disable the tilt/movement sensor. The EGIS will generate a tone sound to indicate this action:

- Descending tone when Tilt/Dead man is enabled
- Ascending tone when Tilt/Dead man is disabled

For the Tilt (Man Down) and Dead Man settings see pages 21-22.

The other P3 function relating to dialling numbers and sending SMS messages are listed in the table below.

SMS ?P3 to view the settings below			
FUNCTION	SETTINGS	DEFAULT	GLOBAL SUB -FIELD
P3fun	Sets the functionality of the button 0 = Use for Telephone capabilities 1 = Use for GPRS communications 2 = Use to Enable/Disable Tilt 3 = Use to Enable/Disable Dead man 4 = Use to Enable/Disable Welfare check	0	
P3selcall	Provides a cell call tone when a valid signal is received at the tracking server (used when GPRS polling is enabled)	0	
P3btn	Sets number of presses required to trigger 1,2,3 press required	1	
P3time	Sets the time interval for multi button presses 5=500msec 10=1 sec 20=2sec	20	
P3snd	Sets the sound that is generated when triggered Selectable 1-20 (0=OFF)	1	
P3vib	Sets the vibration pattern when triggered Selectable 1-20 (0=OFF)	4	
P3ph	Sets the phone number the unit can call upon a trigger Selectable 1-9 from the Phone Number list or see rotational dial section 24 if required	0	See page 13 (Step 1)
P3sms	Sets the mobile numbers to SMS (up to 8 numbers can be added) Selectable 1-9 from the SMS Number list		See page 14 (Step 2)
P3msg	Sets the message text included in the SMS sent Selectable 1-9 from the Message Text list GPS location can be added using the *y* command (see page 16)	0	See page 15 (Step 3)

MAN DOWN/TILT SET UP

The Man Down feature, also referred to by the parameter name **Tilt**, utilises the built-in 3 axis accelerometer to warn and report when the EGIS is not in an upright position.

All programmable functions relating to this feature are listed in the table below.

The sections highlighted in grey must be set up to enable Tilt/Man Down reporting.

The tilt sensor is enabled by setting **TiltEn** to 1.

P3 can also be used to enable and disable tilt. See the P3 button set up section, page 20.

The tilt function includes an adjustable 2 stage timer to warn the user before reporting an alarm condition:

- **TiltDly1** The time delay period before going into tilted warning state.
If the tilt condition is corrected within this time, the timer will auto reset.
- **TiltDly2** The warning time period before going into alarm condition.
If the tilt condition is corrected within this period, the user must also press the Cancel (x) button to prevent an alarm.

If the EGIS goes into a tilt alarm condition, the user must press and hold the Cancel (x) button for 3 seconds to clear the local alarm. A double beep tone will be generated.

The angle at which the tilt sensor is triggered can be adjusted using the **Tangle** function.

Tph, **Tsms** and **Tmsg** are set up in the same manner as the Smart Buttons with the phone number, SMS numbers and message text allocated from the master lists set in steps 1, 2 & 3.

Sms ?Tilt to view the settings below		
FUNCTION	SETTINGS	DEFAULT
TiltEn	Indicates if the function is enabled or disabled 0 = OFF 1 = ON	0
TiltDly1	Sets delay time before tilt triggers 0-60 seconds, Note : If the tilt is corrected during this period, the timer will auto reset.	20
TiltDly2	Sets delay time before tilt triggers 0-60 seconds, Note : If the tilt is corrected during this period, the X button must be pressed to clear.	20
Tangle	This sets the Tilt angle sensitivity Selectable range is 30-90 (lower is more sensitive)	55
Tph	This allocates the phone number it will call on a tilt alarm or see rotational dial section 24 if required	See page 13 (Step 1)
Tsms	This allocates the phone number it will SMS on a tilt alarm	See page 14 (Step 2)
Tmsg	This allocates the text message when tilt is triggered	See page 15 (Step 3)

DEAD MAN/NO-MOVEMENT SET UP

The Dead Man function (**DM**) refers to the no-movement detection feature. EGIS can warn and report when it senses no movement for a set period of time. All programmable functions relating to this feature are listed in the table below. The sections highlighted in grey must be set up to enable Dead Man reporting. The Dead Man sensor is enabled by setting **DmEn** to **1**.

The Dead Man function includes an adjustable 2 stage timer to warn the user before reporting an alarm condition:

- **DmDly** The time period before the no movement sensing is activated.
If the EGIS is moved within this time, the timer will auto reset.
- **DmWarn** The warning time period before going into alarm condition.
If the EGIS is moved within this time, the timer will auto reset.

If the EGIS goes into a Dead Man alarm condition, the user must press and hold the Cancel (x) button for 3 seconds to clear the local alarm.

The movement sensitivity threshold can be adjusted using the **Dmth** function.

Dmph, **Dmsms** and **Dmsg** are set up in the same manner as the Smart Buttons with the phone number, SMS numbers and message text allocated from the master lists set in steps 1, 2 & 3.

Sms ?DM To view the settings below		
FUNCTION	SETTINGS	DEFAULT
DmEn	Indicates if the function is enabled or disabled 0 = OFF 1 = ON	0
DmDly	Sets delay time before dead man triggers 0-180 seconds, Note : If EGIS is moved within this period, the timer will auto reset.	5
DmWarn	This sets the dead man warning time, before it goes into alarm Note : If EGIS is moved within this period, the timer will auto reset.	30
Dmth	This sets the movement threshold 1-10 1 = most sensitive 10 = least sensitive	6
Dmph	This allocates the phone number it will call on a dead man alarm or see rotational dial section 24 if required	See page 13 (Step 1)
Dmsms	This allocates the phone number it will SMS on a dead man alarm	See page 14 (Step 2)
Dmsg	This allocates the text message when dead man is triggered	See page 15 (Step 3)

AUTO ANSWER

Incoming voice calls can be auto answered by the EGIS using the following functions:

SMS ?AA to view the settings below

FUNCTION	SETTINGS	DEFAULT
aaCount	Sets the number of rings before answering an incoming call. 0 = OFF 1-10 number of rings before auto answer occurs	4
aaSound	Sets the sound generated when the EGIS auto answers a call 0 = OFF 1-20 selectable sound tones	8
aaShake	This enables shake to answer 1 = ON 0 = OFF	0
AaShth	This sets the shake threshold (ready only)	57
Ringsound	Sets the ringtone when there is an incoming call 0 = OFF 1-20 selectable sound tones	20
RingVibe	Sets the vibration pattern when there is an incoming call. 0 = OFF 1-20 selectable vibration patterns	9

Incoming Call Acceptance List (ICAL)

The ICAL function restricts the EGIS to only accept phone calls from numbers that have been listed (up to 4). Calls from any other number will be rejected.

SMS ?ICAL to view the settings below

FUNCTION	SETTINGS	DEFAULT
ICAL	This enables the ICAL function 1 = ON 0 = OFF	0
ICALPH1	ICAL Phone number 1 location	
ICALPH2	ICAL Phone number 2 location	
ICALPH3	ICAL Phone number 3 location	
ICALPH4	ICAL Phone number 4 location	

Rotational Dialling Function ?VTO

This feature enables an EGIS upon any type of alarm to rotational dial.

- Sos
- Tilt
- Dead man
- P1
- P2
- P3

How it Works

When programmed, the EGIS will dial through numbers according to the phone list starting from phone 1 and then wait for the VTO set period (15sec) to answer if no answer will hang up and wait 5 seconds and then move to next number and so on. At the end it will stop if VLoop is set to 0.

Setting Up

Program all the numbers it will dial into the Phone Number list ([page 13](#)).

E.g. To make the SOS button dial through a list, set the number list in **sosPh** (page 17) i.e. **sosPh 123** means dial numbers 1 2 3 4 and stop.

The EGIS will wait 15 seconds to answer as per VTO setting below.

In each section there is VTO and Vloop. These will appear in each button set up and in tilt and Dead Man functions.

Functions

Vto = Voice Time Out default 15 sec (will terminate and move on)

Min 15 sec to 60 sec

Vloop= Function to enable the number to loop around until one answers

0= disable

1= enable

AUDIO SETTINGS

The audio levels of speaker and microphone can be adjusted using the following settings:

SMS ?Audio to view the settings below		
FUNCTION	SETTINGS	DEFAULT
Rxvol	Speaker volume 1-9	6
Txvol	Mic volume 1-9	6

SMS COMMAND LIST

?aa	Auto answer settings
?asset	Shows asset ID of unit
?audio	Speaker and mic settings
?Batt	Battery status
?BOOT	Reboot system (must be on charge)
?GPS	GPS information (location coordinates)
?GPS1	GPS information (Google Maps link)
?in	Inputs status
?imei	Modem IMEI details
?MSG	text message table
?P1	P1 Button settings
?P2	P2 Button settings
?P3	P3 Button settings
?PH	Phone number list
?S	Basic status
?SMS	SMS number list
?SOS	SOS/H button settings
?Tilt	Tilt settings
?dm	Dead man setting
?vto	Voice time out
?can	Cancel button settings
Ver	Software version

BUTTON ALARM TEST

To test the functionality of the Smart Buttons (H/SOS, P1, P2, P3), follow the steps below. This guide assumes that the default settings apply.



1. Press the H/SOS button twice in fast succession (set by **SOSbtn**).
The EGIS will generate a tone to indicate a duress alarm is triggered.
2. The EGIS will then auto dial the phone number it has been programmed with (set by **SOSph**).
The user will be able hear and talk to the person on the other end of the phone call by putting the device next to their ear.

To end the call press the Cancel (x) button.



3. If SMS reporting has been configured (set by **SOSsms** and **SOSmsg**), the EGIS will send an alarm message to the mobile number set.

Repeat these tests for P1, P2 and P3.

INCOMING VOICE CALL TEST

1. When dialling the mobile number of the SIM card fitted in the EGIS, the unit will ring and vibrate to indicate the incoming call.
2. If set up, the EGIS will auto answer after a number of rings (page 23).
The incoming call can also be answered by pressing the P2 button.
A double beep tone will be generated when the phone call is answered.

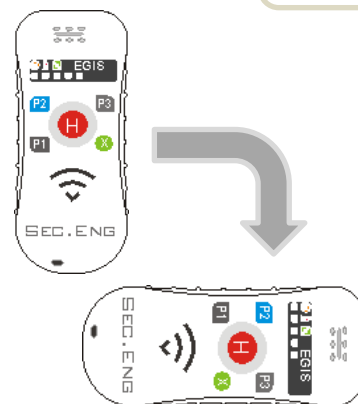
3. To end the call, press Cancel (x) button.



MAN DOWN/TILT TEST

To test the Man Down feature, follow the steps below.
This guide assumes that the default settings apply.

1. Check if the Tilt function is enabled
 - Send an SMS with **TiltEn 1**
 - Or press P3 3 times (if P3 has been set up, page 20)



When using P3, the EGIS will generate a tone sound when tilt is enabled/disabled.

- Descending tone when enabled
- Ascending tone when disabled

2. Place the EGIS flat on its side (tilted 90 degrees).
The unit will generate a double beep sound to indicate it is in a tilted state.
If the EGIS is moved within this period, the timer will auto reset.
3. After 20 seconds of being in this tilted position (set by **TiltDly1**), the EGIS will start to sound a louder audible warning tone.
If the tilt condition is corrected after the 20 seconds, the user is also required press the Cancel (x) button to prevent an alarm.
4. If the EGIS tilt is not corrected for another further 20 seconds (set by **TiltDly2**) it will go into an alarm condition.
The EGIS will then make a voice call and send out SMS messages if this has been set up (check the settings on page 21).
5. To clear the alarm condition, the user must press and hold the Cancel (x) button for 3 seconds (a double beep tone will be generated).

NOTE: The tilt sensor is disabled when on charge.

DEAD MAN TEST

To test the Dead Man feature, follow the steps below.
This guide assumes that the default settings apply.

1. Check if the Dead Man function is enabled.
 - Send a SMS with **Dmen 1**
2. Place the EGIS in a stationary position (no movement).
3. After 5 seconds of no movement (set by **DmDly**) the EGIS will generate a double beep sound to indicate no movement is detected.
If the EGIS is moved within this period, the timer will auto reset.
4. After a further 30 seconds of no movement (set by **DmWarn**), the EGIS will go into an alarm condition.
The EGIS will then make a voice call and send out SMS messages if this has been set up (check the settings on page 22).
5. To clear the alarm condition, the user must press and hold the Cancel (x) button for 3 seconds (a double beep tone will be generated).



NOTE: The no movement sensor is disabled when on charge.

MSP SET UP

The MSP (Micro Server Platform) allows for EGIS devices to report an alarm from an EGIS via SMS to a MSP –SED-30 with the ability to perform the following operations:

- Relay Outputs Control (Strobe and Siren applications)
- Contact ID (DTMF) Reporting (Monitoring applications)
- SMS reporting (Generated by the MSP, not EGIS)

Based on the SED-30, the MSP system requires a SIM card and mobile network connection to allow for communication with the EGIS (via SMS). The EGIS is capable of communicating with the MSP unit while still maintaining normal voice call SMS reporting operations.

EGIS Programming

The following EGIS parameters can be used to control the MSP unit:

- Smart Button press (SOS/H, P1, P2, P3)
- Man Down/Tilt alarm
- Dead Man/No movement alarm

The EGIS functions relating to the MSP, also referred to as **MP**, are shown in the programming sections of the manual (Buttons, Man Down and Dead Man pages 17-22).

1. The mobile number of the MSP must be stored in the SMS Number list (page 14) and a operation message must be stored in the Message Text list (page 15).

The operation message will tell the MSP unit what action to take.
i.e. to turn on relay 1 use the operation **OUT1ON**

2. Set the MP function of the alarm input using the command:

Use in button, Tilt, DM control on an EGIS (example)

(input)mp M(x)P(y)

Single space character between mp and P

input = SOS, P1, P2, P3, Tilt, Dm

y = Message Text list position (1-9)

x = SMS Number list position (1-9)

Example: Set the SOS button trigger to activate relay 2 on the MSP unit.

Add a new msg setting under ?MSG; Message 5 called out1on.

And then in the ?sms list, say under mobile number 3, add the phone number for the SED-30 MSP . If the mobile number of the MSP is stored in location 3 and the operation message (OUT2ON) is stored in location 5, you would then add the following message to the SOS button SOSMP field. **Example for the sos would be SOSmp M3P5 as this links Message 3 and sms ph5 to the MSP platform.**

Large Battery Specification

- 3.7V 6200 mAh - Talk time: 8 hrs, standby run time: 48 hrs @5min polling
- Recharge time: 6 hours
- Cell type used - Lithium-ion / Expected life 3-5 years before replacement.

Small Battery Specification

- 3.7V 2350 mAh - Talk time: 6 hrs, Standby run time: 24 hrs @5min polling
- Recharge time: 4 hours
- Cell type used - Lithium-ion / Expected life 3-5 years before replacement.

Mobile Communication Module (Sierra Wireless)

- Sierra Wireless AirPrime WP7609 Cat-4 IoT
- VoLTE 4G with 3G and 2G fallback
- LTE frequency Bands B1(1920- 2170MHz), B3(1710-1880MHz), B5(824-894MHz), B7(2500-2690MHz), B8(880-960MHz), B28(703-803MHz)
- 3G frequency bands B1(2100 MHz), B4(1700MHz), B5(850MHz), B6(800MHz), B8(900MHz)
- Micro SIM card std non locked

GPS Chip Set (UBLOX)

- Navigate down to -162 dBm and -148 dBm cold start
- Frequency L1 (1575.42MHz)
- 50 Channel
- Cold start 33 sec, Warm start 3 sec
- Faster acquisition with Assist Now Autonomous
- Configurable power management
- Hybrid GPS/SBAS engine (WAAS, EGNOS, MSAS)
- Anti-jamming technology

Certifications

PTCRB, GCF, R&TTE/CE, FCC, IC (Canada), Giteki (Japan), A-tick (Australia), IDA (Singapore), Anatel (Brazil), NCC (Taiwan), CCC (China), KCC (S. Korea), AT&T (USA), DoCoMo, Softbank (Japan), Telstra (Australia), Vodafone (All Vodafone networks), Telecom NZ, Rogers, Bell Mobility, Telus (Canada), SKT (S. Korea), ICASA (S. Africa).

ACMA SARS & EMC Certifications

EN 62209-1 :2006, EN 62209-2 :2010, AS/NZS CISPR 22:2009 3G

SEC-ENG Austel Approval N3884 C-tick approved

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