SEC-ENG SYSTEMS

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EGIS 2

SETUP & USER GUIDE

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Australian Designed and Manufactured

ACMA SARS & EMC CERTIFICATION

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

EGIS 2

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TERMS AND CONDITONS

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 signal to operate.
It must be fitted with an unlocked mobile phone SIM card and have the following services activated:
- SMS
- Voice
- GPRS/4G data service (for 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.

EGIS 2 Man-Down System

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.

SOS Button
Voice number allocated: _____
SMS number allocated: _____
SMS message allocated: _____

I Button
Voice number allocated: _____
SMS number allocated: _____
SMS message allocated: _____

II Button
Voice number allocated: _____
SMS number allocated: _____
SMS message allocated: _____

III 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 2 Overview Section

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 nano SIM card for communications purposes.

The 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, 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 into the holder. It is also recommended to put a piece of sticky tape over the holder to prevent the SIM card from moving.

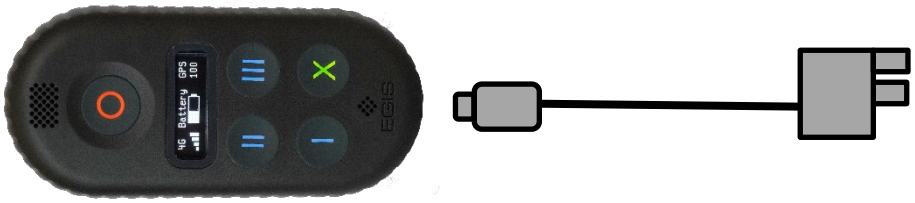
3. Once the SIM card is fitted, re-attach the rear cover and tighten with 4 screws.

4. Place the EGIS on charge to power up.

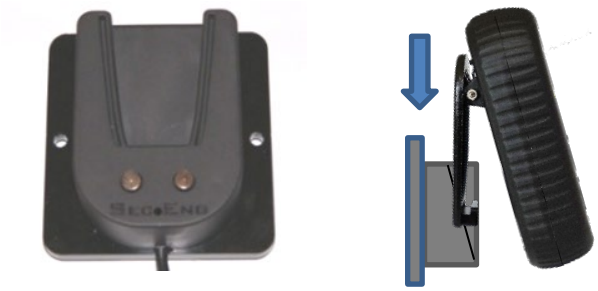
EGIS CHARGER TYPES

There are 3 types of charging options available for the EGIS:

- Single USB-C plug charger



- Single wall mount charger (must be wall mounted)

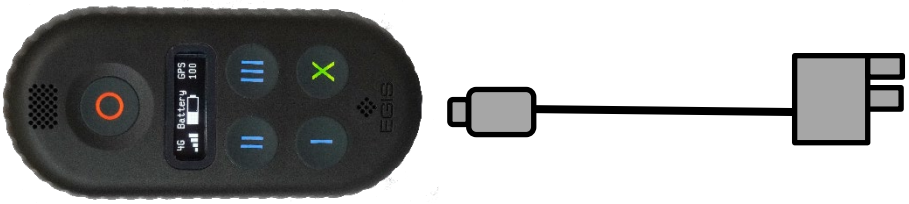


- 5 & 10 bay wall mount charge stations (must be wall mounted)

Note : Charging time required is a minimum of 6 hours per day in 24-hour period.

PLACING THE EGIS ON CHARGE

Plug Charger: Insert the USB-C cabled into the charger socket at bottom of the EGIS. (**Note:** EGIS will show on screen it's charging from USB)



Wall Charger: Press open the rear clip of the EGIS and slide down into the wall charger (**Note:** EGIS will show on screen it's charging from cradle)

When the charger is connected the EGIS will vibrate and a double tone will be sound.

TAKING THE EGIS OFF CHARGE

Plug Charger: Remove USB-C cable from the bottom of EGIS.
Wall Charger: Press open the clip and lift the EGIS upwards to remove from wall charger.

WEARING THE EGIS

The EGIS unit should always be worn as it is for your own protection. The belt is the best location or somewhere around the waist.

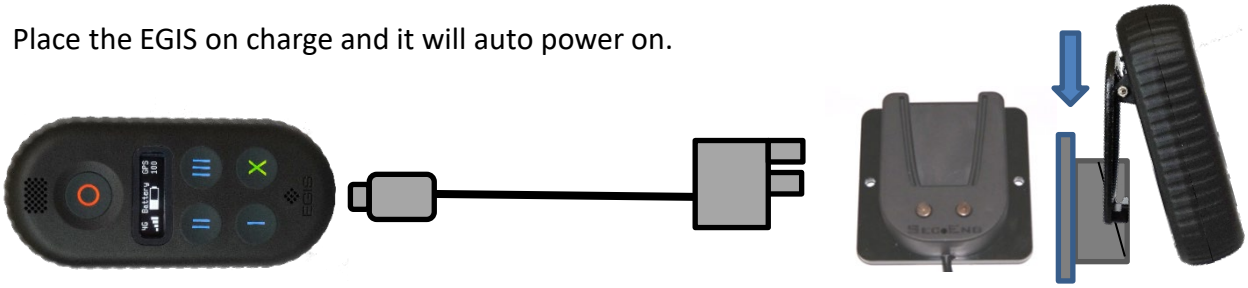
EGIS 2 Overview Section

TURNING THE DEVICE ON

Press and hold the cancel button (**X**) for 10 seconds until the LEDs stream on.

OR

Place the EGIS on charge and it will auto power on.



TURNING THE DEVICE OFF (for travel purposes)

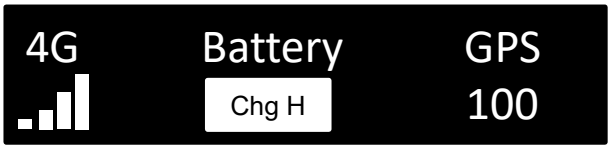
1. Take the EGIS off charge
2. Press together **I & X** buttons.
3. Do this until the screen indicates it's shutting down & then release

4. The EGIS will then beep for about 30 seconds while it's shutting down and stop beeping once it has powered off.

To check the EGIS is off, press cancel button once or twice. no beeps or LEDs shall show or sound.

SCREEN INFORMATION

When the EGIS is on charge, the screen will display the following information screens every 10 seconds.



When not on charge, the screen will be off to conserve battery.

Low Battery: If low battery is detected, the EGIS will indicate this by a double tone as well as displaying on screen a low battery message.

No SIM / No Network: The screen will display 0 signal if the device has no network connection.

EGIS 2 Overview Section

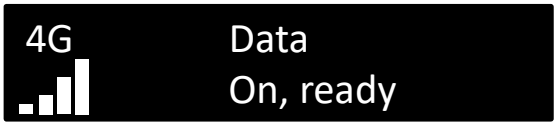
SCREEN INFORMATION (using the cancel button)

Phone Call: While in the process of making a voice call, pressing the cancel button 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 Screens: When not in a call, pressing the cancel button will toggle between different screens:

4G Signal Test - Press cancel button once
Indicates mobile signal strength from 1 to 5 (i.e. low to high) **Example**: 4 bars of signal = Good



Battery Test - Press cancel button twice
Indicates how much battery you have as a %

GPS SAT Test - Press cancel 3 times
This indicates GPS signal level and how many satellites are in view. **Example**: If GPS signal strength is 0% then there is no signal. Try testing the device outside.

Asset ID - Press cancel 4 times
This indicates the devices asset ID name.

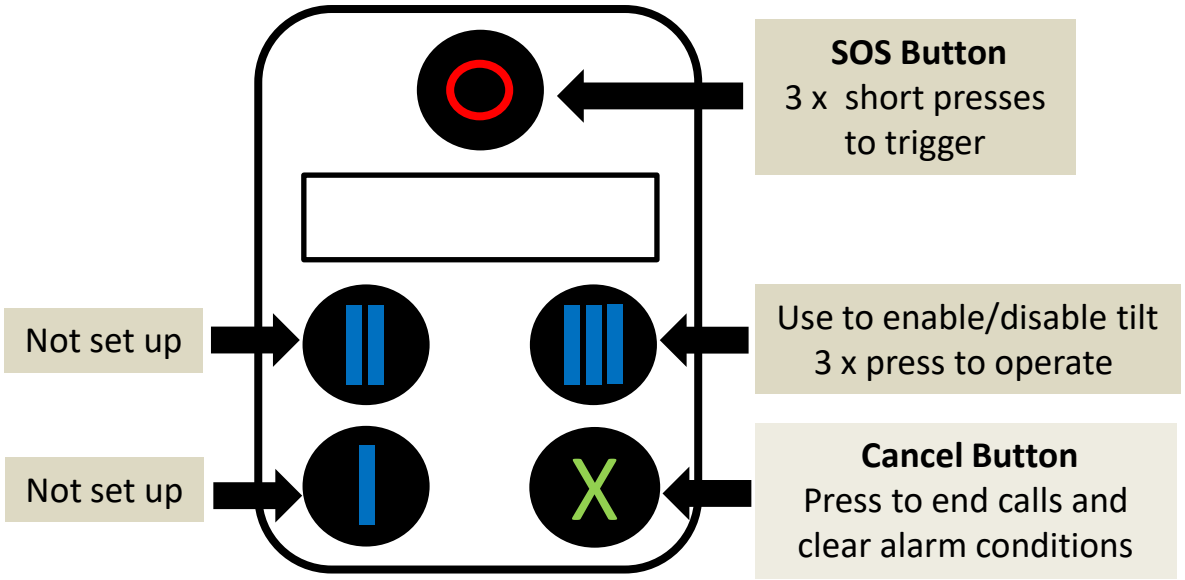
Alarm Sensors - Press cancel 5 times
This indicates If tilt or dead man are enabled on the device.

SMART BUTTONS OVERVIEW

The EGIS features 4 programmable buttons (SOS, I, II, III) 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 the 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.

Checking Settings:
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 confirm if the EGIS is responsive to SMS. It provides a general indication of the status of the unit.

Example:
?Audio (will return a message with the following information)
Txvol = 5
Rxvol = 5

Changing Settings:
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)

The EGIS will send another SMS confirming this change.

SMART BUTTONS CONFIGURATION

Each button has several 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

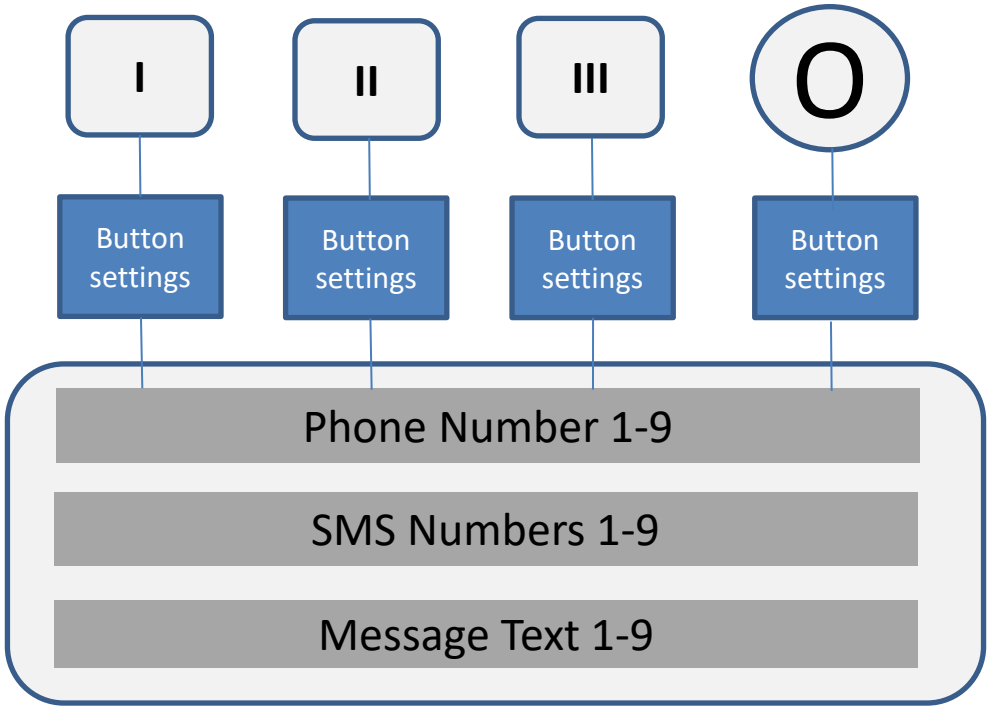
i.e. dial a number and/or send an alarm SMS message

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



EGIS 2 Programming Section

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 Y**

  Single space character between list location and phone number
- To delete a listed phone number: **PhX 0**

  Single space character between list location and 0

Y = Phone number

X = list location 1-9 (See table below)

Example: to set **Ph1** with the number **0412345678**, use the SMS command **Ph1 0412345678**
Set Ph2-Ph9 in the same way if required.

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 numbers must be stored in Ph1-Ph9, See page 26.

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

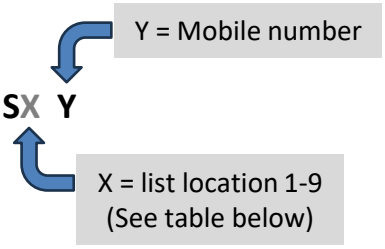
EGIS 2 Programming Section

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 Y**
  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 **0412345678**, use the command **SMS1 0412345678**

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 T**
  Single space character between list location and message text
- To delete the listed message text:
  MsgX 0
  Single space character between list location and 0

T = Message Text

X = list location 1-9
(See table below)

Example: to set **Msg1** with the text **Test12345**, use the command **Msg1 Test12345**

Set Msg2-Msg9 in the same way if required.

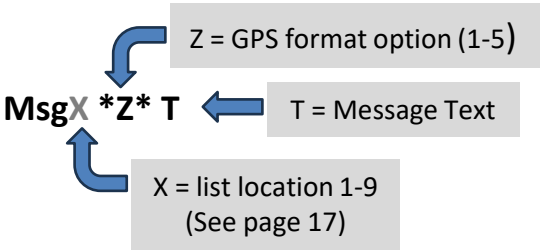
SMS ?**MSG** to view the list below

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 4 Setting the Messages Text list (for SMS) continued

The EGIS can provide its GPS location in the SMS messages it reports. There are several 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 ***Z*** in front to the message text programmed in the previous page.



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, latitude, longitude	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

SOS BUTTON SET UP

The SOS button, 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 17) 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 18) 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 19) in the SMS sent, use the command: **SOSmsg 4**
Note: To add GPS coordinates of the location in the message see page 20.

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 a be long (L) or short (S) press	**2 s**	Number followed by L or S
SOStime	Sets the maximum time allowed to trigger 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 17 (Step 1)
SOSsms	Sets the mobile numbers to SMS (up to 8 numbers can be added) Selectable 1-9 from the SMS Number list	**0**	See page 18 (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 19 (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**	

I (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 17) 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 18) 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 19) in the SMS sent, use the command: **P1msg 2**
Note: To add GPS coordinates of the location in the message see page 20.

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 maximum time allowed to trigger 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 17 (Step 1)
P1sms	Sets the mobile numbers to SMS (up to 8 numbers can be added) Selectable 1-9 from the SMS Number list	**0**	See page 18 (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 19 (Step 3)

II (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 17) 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 18) 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 19) in the SMS sent, use the command: **P2msg 1**
Note: To add GPS coordinates of the location in the message see page 20.

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 maximum time allowed to trigger 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 17 (Step 1)
P2sms	Sets the mobile numbers to SMS (up to 8 numbers can be added) Selectable 1-9 from the SMS Number list	**0**	See page 18 (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 19 (Step 3)

III (P3) BUTTON SET UP

The P3 button can be programmed to make a voice call and/or SMS when triggered. It is set up in the same manner as P1 and P2 buttons (page 22-23). 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 25-26.

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 maximum time allowed to trigger 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 17 (Step 1)
P3sms	Sets the mobile numbers to SMS (up to 8 numbers can be added) Selectable 1-9 from the SMS Number list	**0**	See page 18 (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 19 (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 button can also be used to enable and disable tilt. See the P3 button set up section, page 24.

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 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 17 (Step 1)
Tsms	This allocates the phone number it will SMS on a tilt alarm	See page 18 (Step 2)
Tmsg	This allocates the text message when tilt is triggered	See page 19 (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. 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 period before the no movement sensing is activated.
  If the EGIS is moved within this time, the timer will auto reset.
- **DmWarn** The warning 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 **Dmmsg** 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 17 (Step 1)
Dmsms	This allocates the phone number it will SMS on a dead man alarm	See page 18 (Step 2)
Dmsg	This allocates the text message when dead man is triggered	See page 19 (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 PH 1 and then wait for the VTO set period (15sec) to answer. If no answer, it 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 17).
E.g. To make the SOS button dial through a list, set the number list in **SOS PH** (page 21) i.e. **SOS PH 1234** 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 min 15 sec to 60 sec (default 15sec).
Vloop = Function to enable the number to loop around until one answers
0 = disable
1 = enable
Vcount = The number of times it loops. For example, if Vcount = 3 it will loop through the PH numbers 3 times.

LOW POWER MODE ?LP

This feature allows the EGIS to conserve battery therefore having a longer run time.

ModemLowPwr = If modem low power is enabled or not
0 = Disabled
1 = Enabled
MdmLowPwrDly = The time it takes until the modem starts up.

GPSlp = If GPS low power is enabled or not
0 = Disabled
1 = Enabled
GPSlpt = The time it takes until the GPS starts up.

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

MSP SET UP

The MSP (Micro Server Platform) allows for EGIS devices to report an alarm from an EGIS via SMS to an 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 can communicate 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 21-26).

1. The mobile number of the MSP must be stored in the SMS Number list (page 18) and an operation message must be stored in the message text list (page 19).

   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 **M**
   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: **SOSmp M3P5**
   This links Message 3 and SMS mobile number5 to the MSP platform.

CSV IP Set Up

The EGIS 2 is capable of reporting alarms via the CSV IP protocol to monitoring companies providing this service.
A CSV report can be generated by any of the alarm conditions on the EGIS 2 (i.e. Duress buttons, Mandown alarm, Deadman alarm) as well as system conditions (i.e. On/off charge and periodic test reports)
Setting up CSV reporting can be done by SMS commands or connecting to a PC using terminal commands.

The Command **?CSV** will report the CSV related setting currently configured on the EGIS 2.

FUNCTION	SETTINGS	DEFAULT
CSVEn	Enable/Disable CSV reporting 1=On 2=Off	0
CSVClient	Clinet ID used to report	none
CSVUser	CSV Username (if required by monitoring provider)	user
CSVPass	CSV Password (if required by monitoring provider)	pass
CSVTCP	TCP/UDP Communication protocol 1=TCP 0=UDP	1
CSVIP1	IP address of CSV server 1	none
CSVIP2	IP address of CSV server 2 (backup if server 1 fails)	none
CSVGPS	Include GPS location information with CSV reports 1=Latitude and Longitude 2=Google maps link	0
CSVEmgPollTime	Time interval of CSV reports being resent if the alarm condition hasn't been cleared. Set in seconds	30
CSVTestTime	Time interval of period test reports. Sent in hours (0=Off)	24

To Set Up:

1. Set the 4 digit client code in the field **CSVclient ####**
   Example: **CSVclient 8888**

2. Set the IP address and port of the monitoring company's CSV server using the command **CSVIP IP:PORT**
   Example: **CSVIP1 123.101.0.5:5000**

4. By default the EGIS will use TCP for communication, if UDP is required then use the commanded **CSVTCP**
   Example: **CSVTCP 1** for TCP (default)
   CSVTCP 0 for UDP

5. Set the **APN** according the sim card service used in the EGIS 2.
   Example:
   For Telstra use **APN1 telstra.internet**
   For Optus use **APN1 connect**
   For Vodafone use **APN1 live.Vodafone.com**
   (**?GPRS** to check the current APN settings)

6. If required by the monitoring company, a username and password can be set up for CSV authentication. Otherwise leave as the default user and pass
   Example: **CSVUSER #####**
   CSVPASS #####

7. The EGIS 2 buttons used for CSV reporting will need to be enabled and set to an alarm input type. This is done using the following commands.

   To enable Buttons for CSV:
   SOS button: **sosfun 1**
   P1 button: **p1fun 1**
   P2 button: **p2fun 1**
   P2 button: **p3fun 1**

   To buttons type to alarm:
   SOS button: **intype 5 A**
   P1 button: **intype 1 A**
   P2 button: **intype 2 A**
   P2 button: **intype 3 A**

7. Set the Cancel button 'X' to allow the user to clear CSV alarms by holding it down
   Example: **canfun 1**

8. Enable CSV with command **CSVEn 1**

9. Enable data communication on the EGIS 2 with the command **GPRS 1**

10. Test CSV reporting by triggering any of the buttons that have been set up and checking with the monitoring provider for alarm reports.

Default ADEMCO Event Codes For EGIS 2

EVENT	EVENT TYPE CODE	AREA	ZONE
SOS Button Alarm	120	00	001
Mandown Alarm	120	00	002
Deadmand Alarm	120	00	003
P1 Button Alarm	120	00	011
P2 Button Alarm	120	00	012
P3 Button Alarm	120	00	013
Low battery	140	00	040
On/off charge	140	00	041
Daily test	140	00	042

SOS BUTTON ALARM TEST

To test the functionality of the Smart Buttons (SOS, I, II, III) follow the steps below.
NOTE: This guide assumes that the default settings apply.

1. Press the **O** button to trigger according to your set up. **(3 fast presses**) The unit will vibrate, and a tone will be generated to confirm the alarm activation. The screen will display the following message:

   SOS ALARM
   Alarm active

2. The EGIS 2 is now in panic mode and the following alarms will be generated (if configured):
   - Alarm notification is sent to the monitoring company via Pegasus
   - SMS message sent to the programmed phone numbers
   - Voice call made to the programmed phone numbers

3. If the EGIS 2 is set up to make a voice call, press the **X** buttons to end the call.

   VOICE CALL
   In Voice Call

Repeat these tests for I, II and III.

Note: If the 'Alarm active' message remains on screen, this indicates that the alarm needs to be cleared from the Pegasus server by the monitoring company.

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 several rings (page 27).
   The incoming call can also be answered by pressing the II 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

The Man Down function works by tilting the device which will generate an alarm after a set time.

Note: This only works when the EGIS 2 is **NOT** on charge.

Testing:

1. Turn the EGIS 2 on its side (tilt angle depends on your set up).
2. After 3 seconds the unit will go into the Man Down warning mode where it will produce a double beep to indicate this for the set timer 1 **(default: 20 seconds).** The screen will also display a message to indicate this tilt warning.

   TILT – warning 1
   Stand up

3. During timer 1 you can stand the EGIS 2 up to clear the warning.
4. If timer 1 expires while the device is still tilted, it will then go into the alarm delay Timer 2 **(default: 20 seconds)** and generate a faster double beep and display the following message.

   TILT – warning 2
   Stand up, hit X

5. To cancel the tilt condition, you must now stand the EGIS 2 up and hold the X button for 2 seconds.
6. If this is not done, the EGIS 2 will go into a tilt alarm when timer 2 expires.
7. For testing purposes, let the device go into alarm.
8. When in alarm, it will produce a siren tone every 20 seconds and the following message on screen.

   TILT ALARM
   Hold X to clear

- To **RESET** you must stand the device back up and hold the X button until a double beep is generated to confirm the alarm is cleared locally.

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 the first set time 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.

   DeadMan warning1
   Move

4. During the second set time of no movement (set by **DmWarn**), the EGIS will generate a double beep sound to indicate no movement is detected.

   DeadMan warning2
   Press X to clear

5. Next 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 26).

   DeadMan ALARM
   Press X to clear

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.

EGIS 2 Specifications

Battery Specification

- 3.6V 2.4Ah - Standby run time: 30hrs on 5min polling
- Recharge time: 3-4 hours
- Cell type used: Lithium–ion / Expected life 3-5 years before replacement.

Mobile Communication Module (UBLOX)

- UBLOX Lara R6
- 4G/VoLTE/3G
- Worldwide WCDMA(UMTS) and GPRS/EDGE coverage
- LTE/3G/GSM-Multi-regional B1,2,3,4,5,7,8,18,19,20,26,28 LGA
- **Nano SIM card required**

GPS Chip Set (UBLOX)

- Navigate down to –157 dBm and –146 dBm cold start
- Frequency L1 (1575.42MHz)
- 50 Channel
- Cold start 23 sec, Warm start 1 sec
- Faster acquisition with Assist Now Autonomous
- Configurable power management
- 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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