

## Modbus Alert SMS SMS-Alert-03



**ISEP Pte Ltd**  
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## 1. Introduction

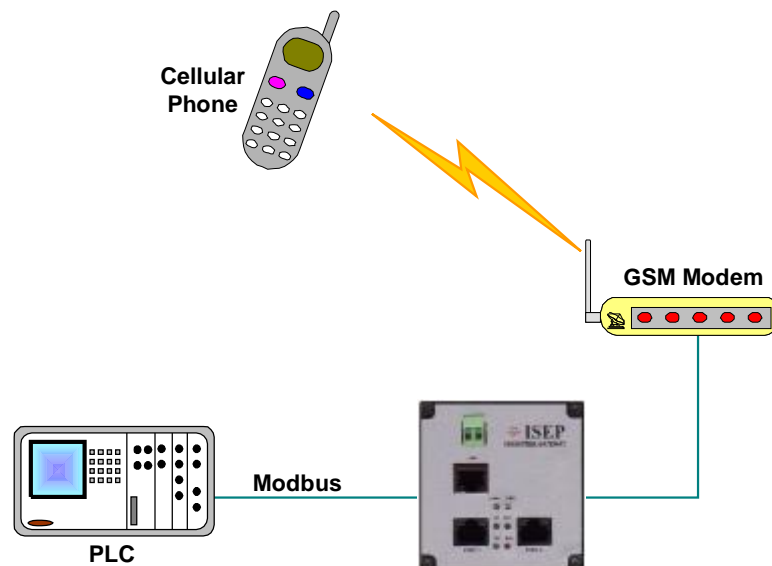
The Modbus Alert SMS (SMS-Alert-03) is a cost effective System Alert Device, which allows user to alert operators or technicians by sending SMS messages. Immediately, this gateway can enhance your Modbus RTU/ASCII device to include SMS alert facility. The SMS message can be pre-configured by user.

The Modbus Alert SMS does not require a data communication expert to configure. Its user-friendly interface software makes configuring the Modbus Alert SMS very easy and convenient. It functions as a transparent device for remote alert via SMS. Modbus Alert SMS has built-in microprocessor chip running on real-time operating system. This helps to eliminate the system from overloading with extraneous requests. Thus makes the system more stable and reliable during data transmission and conversion. It comes with an enclosure that can be mounted on Din-rail.

The main functions of this product are:

1. Alert SMS when the defined alarm is triggered
2. Read and set the data through hand phone

More detail will be discussed in chapter 4.



## 2. Specification

### Physical Dimension

Dimension	110mm x 55mm x 75mm
Weight	800g
Diagnostic LEDs	Serial : Tx, Rx, Power
Installation Method	35mm Din-Rail, desk mount.

### Environmental

Operating Temperature	10°C – 50°C
Operating Humidity	5 – 90 % non-condensing

### Power

Supply Voltage	unregulated 10 to 30 VDC, polarity independent
Current	150mA
Power Consumption	5 watts
Connection	Screw terminal

### Communication Interface

- Serial Port 1	RS232
Data rate	4800-113200 bit/s Half duplex or simplex
Data format	8 Data bits, No parity, 1 stop bit
Connection	RJ45 connector
- Serial Port 2	RS232 (Configuration Port)
Data rate	4800-113200 bit/s Half duplex or simplex
Data format	8 Data bits, No parity, 1 stop bit
Connection	RJ45 connector

## 3. Installation

1. Connect power to the screw terminal
2. Connect modem to screw terminal
3. Serial port 2 shall be used for configuration only.
4. Serial port 1 shall be connected to the GSM modem.
5. After finishing the configuration, serial port 1 will be used to connect our system to the Modbus RTU devices

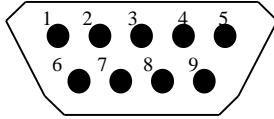
Serial Port 2 , RJ 45 connection

Pin	Signal	Direction	Description
1	RX	In	Received data
2			Not connected
3			Not connected
4	Gnd		Gnd
5			Not connected
6			Not connected
7			Not connected
8	TX	Out	Transmitted data

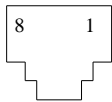
Serial Port 1 , RJ 45 connection

Pin	Signal	Direction	Description
1	RX	In	Received data
2			Not connected
3	CTS		Clear to send
4	GND		Gnd
5	DSR		Data Set Ready
6	DTR		Data Terminal Ready
7	RTS		Request to Send
8	TX	Out	Transmitted data

## DB9 Male Connector



## RJ45 Connector



## LEDs

TX1	Color Green	ON: Mark (>3 V)	OFF : Space (<-3V)
RX1	Color Red	ON: Mark (>3 V)	OFF : Space (<-3V)
TX2	Color Green	ON: Mark (>3 V)	OFF : Space (<-3V)
RX2	Color Red	ON: Mark (>3 V)	OFF : Space (<-3V)
PWR	Supervise Green	ON: Power OK	OFF: No Power

## 4. Function Description

The functionality of this product can be categorized into two main functions:

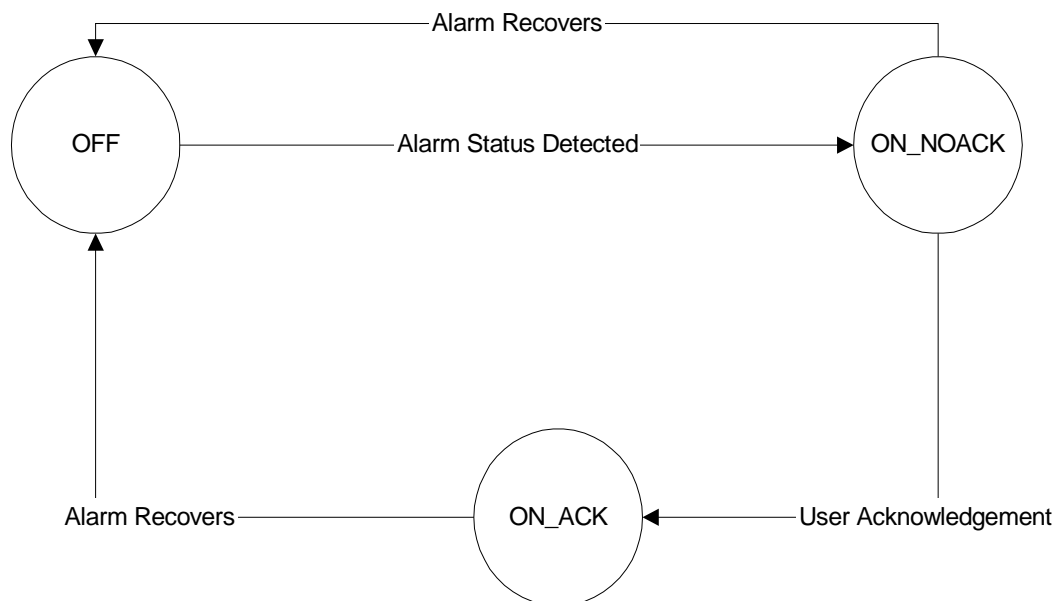
### 4.1. As Alerter System

Up to 128 common Alarm Point can be defined for monitoring. They are Coil Status, Input Status, Holding Registers and Input Registers.

Each alarm point can configured to trigger in 3 states : High, Low and Normal. User can configured SMS message for the 3 state. The message maximum length's is 20 characters.

For each alarm we can register up to 10 hand phone numbers with configured delay time from one SMS to next SMS and also the maximal number of SMS for each alarm. The system will start SMS from the first user and it will continue until it reaches the maximal number of SMS that can be sent. Maximal number of SMS is 10.

The unit can holds up to 48 hand phone numbers with 5 of them having special privileges for write operation like activate/deactivate alarm or activate/deactivate certain hand phone number from the list. All commands can be referred to the Appendix A. The list of parameters that can be configured also can be found in chapter 5. The diagram below shows the state of the alarm:



Alarm State	Description
OFF	Normal No Alarm Detected
ON_NOACK	Alarm On but no acknowledgement received Keep sending notification until maximum count reached at specified interval
ON_ACK	Alarm On and acknowledgement received. No notification sent.

We can acknowledge a alarm by using our hand phone, but firstly the hand phone number must be registered as a valid number.

## 4.2. As Enabler for Read/Write the Modbus RTU/ASCII Through SMS

This system will enable up to 48 users to read data of Modbus's device that are using Modbus RTU/ASCII protocol by using their hand phone. A list of instructions for read/write command can found in appendix B.

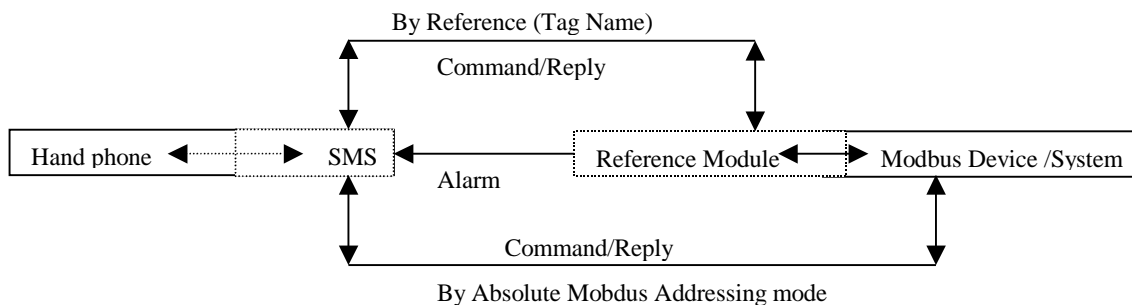
The modbus registers that can be read through the hand phone are Holding Register, Input Register, Input Status and Coil Status. We can read the data from those registers in two ways either using reference point or directly modbus addressing.

Up to 128 common point can be configured to read and write( the type of the register / status for each point can be defined by the user)

In the next chapter we will discuss about how to configure the system.

Another feature of the Modbus Alert SMS is the provision to write to holding register and coil status. This is limit to up to 5 authorized user can only. Writing to the register value can be done in two ways : using the absolute address (e.g. slave address and data point address ) or using the referenced alarm/data point tag name.

Diagram below show the Data Point and how it is associated with Alarm Point. One data point is attached by one alarm point.



## 5. Configuration

This section describes the installation and configuration of the Modbus-Alert-SMS

There are three main steps for setup and configuring the Modbus-Alert-SMS:

1. Installation of Modbus-Alert-SMS Configuration Software
2. Creating the parameters
3. Upload the data from Configuration Software to the device

### 5.1. Installation of Configuration Software

#### System requirements:

To install and run the configuration program from PC, the following requirements are needed.

Minimum PC requirement

386, 486 or Pentium processor PC

Microsoft window 98, Window NT, Window 2000, Window XP

CD-ROM drive

Additional 10 MB of hard disk space

Serial connection

There are 4 different sets of setup files. Each of them dedicated for different window OS version.

The steps to install the Configuration Software are as below:

1. Insert the setup CD to the drive
2. Go to specific folder depending on the current machine's window OS.  
e.g. the CD ROM drive is Z: and this is a **WIN 98** machine, go to **Z:\WIN98**
3. Run the setup.exe and follow the instructions
4. Now we have finished the installation step of the configuration software.

The next step is to create the parameters / data to be uploaded to the device.

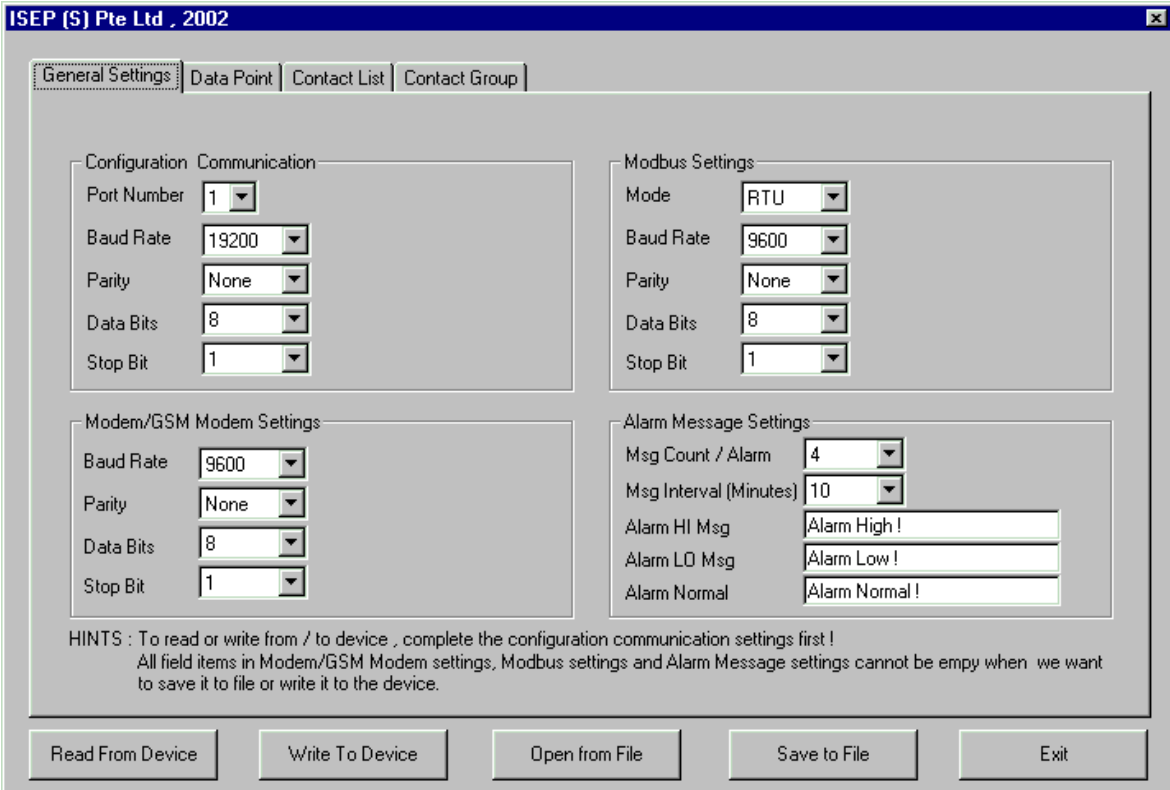
## 5.2. Creating the parameters using the Configuration Software

There are four section of parameters need to be configured.

1. General Settings
2. Data Point
3. Contact List
4. Contact Group

### 5.2.1. General Setting Parameter

This section contains all the information that is needed by the device to communicate with modbus device, gsm modem and some general information about the alarm messages. And also the information for the software so it can upload the parameters/data to the devices



The screenshot shows the ISEP Configuration Software interface. The window title is "ISEP (S) Pte Ltd , 2002". The interface has four tabs: "General Settings" (selected), "Data Point", "Contact List", and "Contact Group".

The "General Settings" tab contains four sections:

- Configuration Communication:** Port Number (1), Baud Rate (19200), Parity (None), Data Bits (8), Stop Bit (1).
- Modbus Settings:** Mode (RTU), Baud Rate (9600), Parity (None), Data Bits (8), Stop Bit (1).
- Modem/GSM Modem Settings:** Baud Rate (9600), Parity (None), Data Bits (8), Stop Bit (1).
- Alarm Message Settings:** Msg Count / Alarm (4), Msg Interval (Minutes) (10), Alarm HI Msg (Alarm High!), Alarm LO Msg (Alarm Low!), Alarm Normal (Alarm Normal!).

HINTS : To read or write from / to device , complete the configuration communication settings first !  
All field items in Modem/GSM Modem settings, Modbus settings and Alarm Message settings cannot be empty when we want to save it to file or write it to the device.

Buttons at the bottom: Read From Device, Write To Device, Open from File, Save to File, Exit.

### Configuration Communication

In this section we need to specify the port number from which this configuration software can upload the parameters. Baud rate, Parity, Data bits and stop bit are set by default and cannot be changed.

### Modem/GSM Modem Settings

Different GSM modem has different parameters when we want to use it. The Modbus-Alert\_SMS device is enabled to connect with different type of GSM modem with different setting parameters like baud rate, parity, data bits and stop bit. We just need to send all of these parameters to the device. Stop bit value is set by default and cannot be changed.

## Modbus Settings

The Modbus-Alert\_SMS can support two type of communication mode: Modbus ASCII and Modbus RTU. It is also possible to configure the Modbus-Alert\_SMS device to communicate with modbus device with different communication parameters like baud rate, parity, data bits and stop bit. Data bits and stop bit is set by default and cannot be changed.

## Alarm Message Settings

These are the common alarm setting parameter, which will be used by all the alarm:

- Msg Count / Alarm : Maximum number of SMS that will be sent if particular alarm is triggered. The range is from 1 up to 10 messages. This information is related to the contact group parameter. For details, please refer to contact group parameter section.
- Msg Interval (Minutes) : Time delay between the first message to the second and so on. First alarm message will be sent immediately after the alarm is occurred. This delay is not applicable for normal alarm message. The available option is 10 Min, 20 Min, 30 Min, 60 Min and 120 Min
- Alarm HI msg : Message for high alarm (20 Characters)
- Alarm LO msg : Message for low alarm (20 Characters)
- Alarm Normal : Message for normal alarm status notification (20 Characters)

**TIPS:** Character '#' is cannot be used in any alarm message

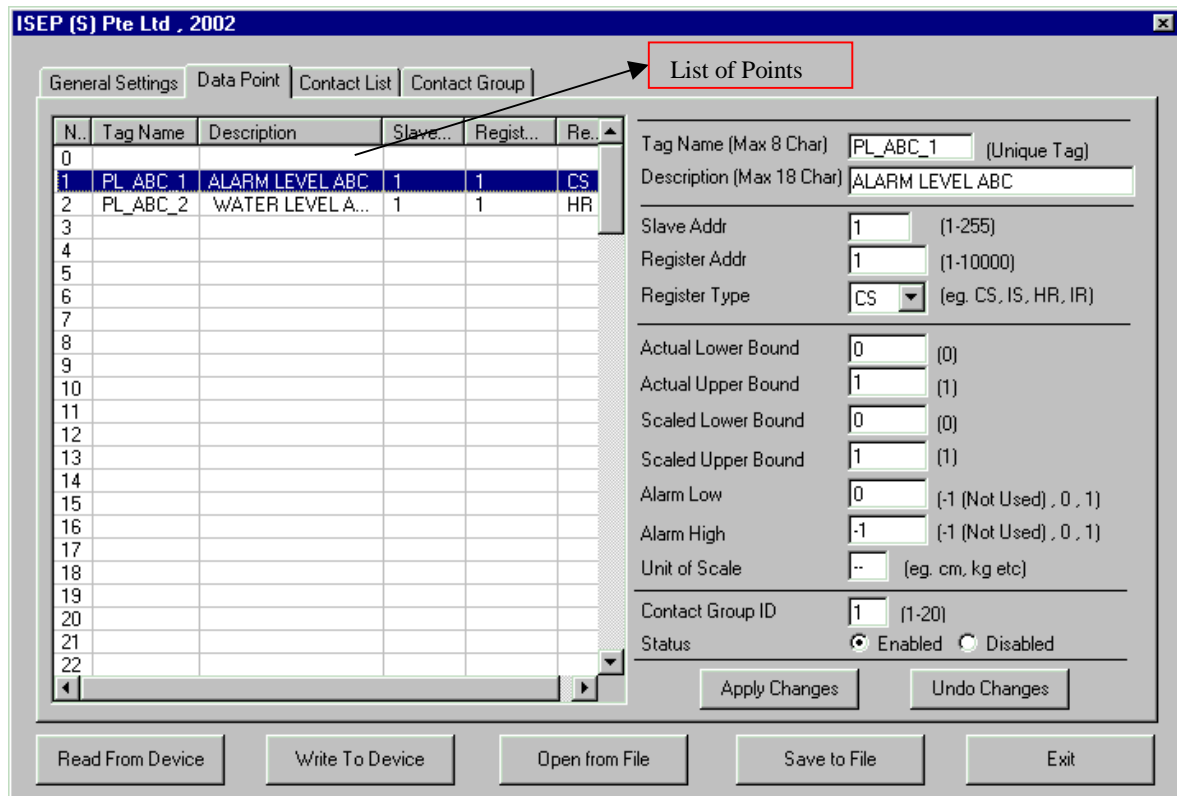
## 5.2.2. Data Points

There are two types of data points. Digital data point and analog data point. Digital data point is corresponding to Coil Status and Input Status. Analog data point is corresponding to Holding Register and Input Register.

These parameters are used for alarming and read / write data through tag reference.

### Digital Data Point

This type of point can only have one of the following possible values: 1 or 0.



The left window shows all points being defined. For each point the detail parameter setting can be set as shown on the right.

The software will automatically check for the valid parameters before you can save the data into the list.

Here are the lists of validation rules:

- Tag name is unique to the other 127 tag name

- The description cannot be empty

**TIPS:** Character '#' is cannot be used in tag name and description

- Slave Address is ranged from 1 – 255
- Register Address (Point Address) is ranged from 1 – 10000
- Register Type is one of the following CS, IS, HR or IR. For digital data it can be only CS or IS.
- For alarm settings: each alarm, Hi or Lo must have a value 0 , 1 or –1.

Value of -1 means that it is not used. e.g. if Alarm Hi is –1 , it means that there is no alarm high.

Value of 0 means if the value of the point is equal to 0 than it will trigger a corresponding alarm. e.g. if Alarm Hi is 0 then when the value of the point is equal to 0 the high alarm will be triggered.

Value of 1 means if the value of the point is equal to 1 than it will trigger a corresponding alarm. e.g. if Alarm Hi is 0 then when the value of the point is equal to 1 the high alarm will be triggered.

**TIPS:** The software will automatically make the value of another alarm to –1 if one of the alarm parameter's value is set. e.g. If Alarm Hi is set to 1 or 0 then automatically Alarm Lo will be set to –1.

- The unit of scale cannot be empty
- Contact group is ranged from 1- 20. It is corresponding to Contact Group Parameters section.

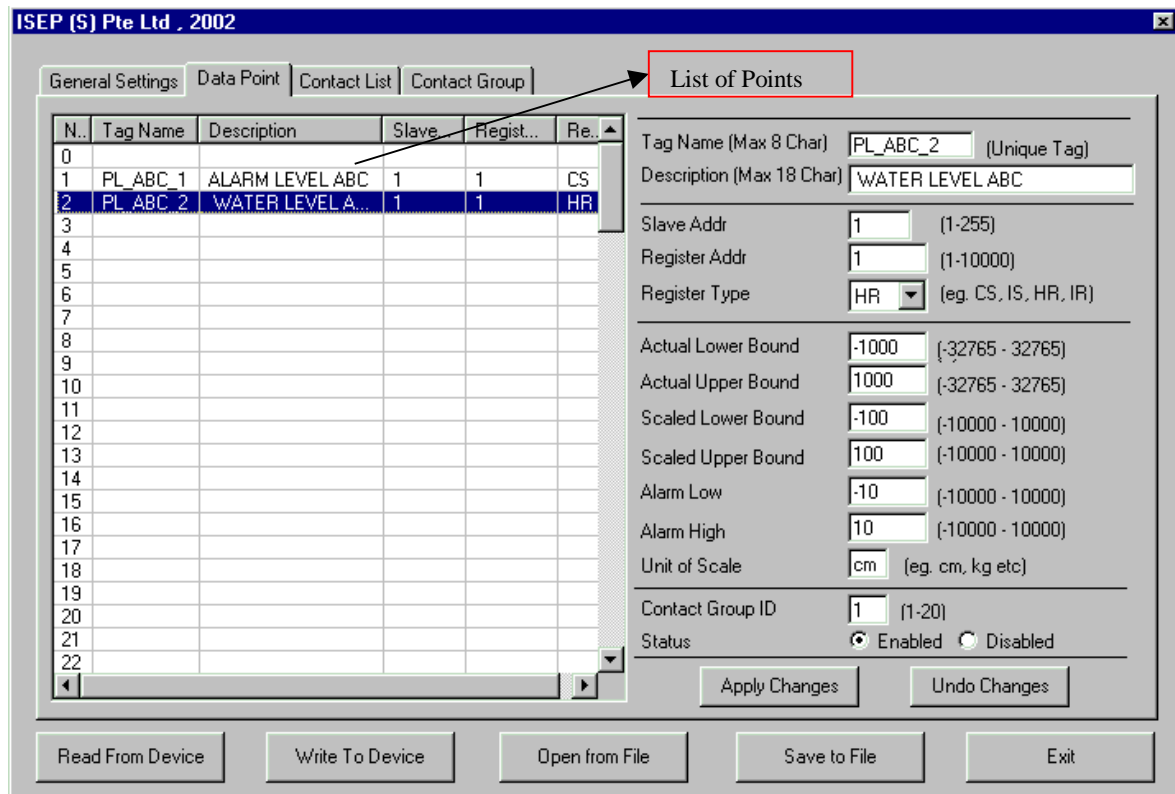
If one of above validation rules is not followed, we cannot apply the changes (e.g. the button keep dimmed)

**TIPS:** The actual lower/upper bound and scaled lower/upper bound cannot be set. It can only be used when we deal with analog data.

Status can be enabled or disabled. It means that the current data point will be enabled/disabled for alarming and referencing.

## Analog Data Point

The analog data points have a value range from  $-32765 - 32765$ . In practise, user can mapped those values to their own-scaled value.



The left window display a list of all points that have been defined. On the right, detail parameter for the point are entered here.

The software checks for valid parameters before data can be saved into the list.

Here are the lists of validation rules:

- Tag name is unique to the other 127 tag name
- The description cannot be empty

**TIPS:** Character '#' is cannot be used in tag name and description

- Slave Address is ranged from 1 – 255
- Register Address (Point Address) is ranged from 1 – 10000
- Register Type is one of the following CS, IS, HR or IR. For digital data it can be only HR or IR.

- 
- The actual lower bound and upper bound value must be ranged from –32765 up to 32765. And the lower bound must be less than upper bound.
  - The scaled lower bound and upper bound value must be ranged from –10000 up to 10000. And the lower bound must be less than upper bound.
  - The low (Lo) alarm and high (Hi) alarm value must be ranged from –10000 up to 10000. And the lower bound must be less than upper bound.
  - The unit of scale cannot be empty
  - Contact group is ranged from 1- 20. It is corresponding to Contact Group Parameters section.

If one of above validation rules is not followed, the changes cannot be applied (e.g. the button keep dimmed)

Status can be enabled or disabled. It means that the current data point will be enabled/disabled for alarming and referencing.

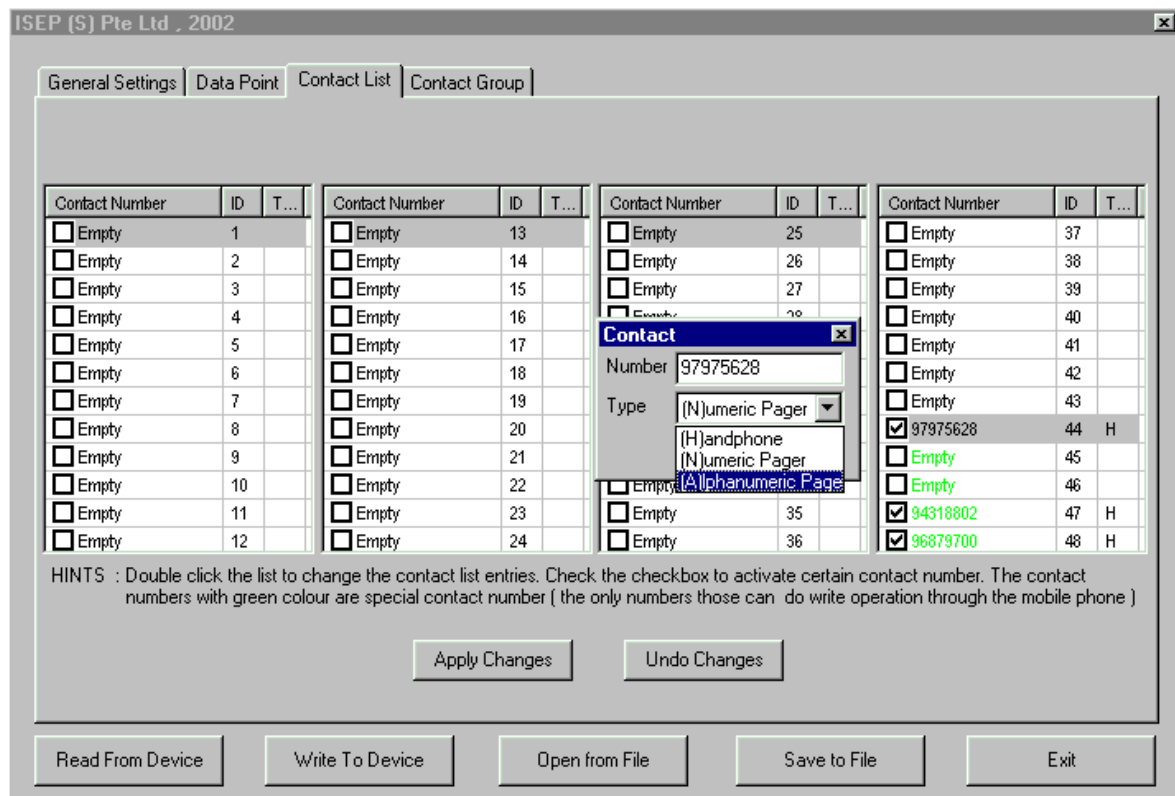
### 5.2.3. Contact List

This section is used to register all contact number into the Modbus-Alert\_SMS device. These numbers will be considered as a valid numbers to the device. User can have three types of contact number, hand phone, alphanumeric pager and numeric pager. Currently version of software can only support hand phone number.

Each member of the contact list will be assigned with a Contact Id (ID). Future reference to contact number will be via contact ID. For example, when we define the contact group or when we want to activate or deactivate the contact number using SMS, contact ID is used.

#### Register / Edit Contact List

To register a contact number or to edit it, just double click the list item. There will be a dialog box contain a text box for the contact number and combo box for the contact type. Click OK when you are done.



## Activate / Deactivate Contact List

We can register a contact number without activate the number. To activate a number there are two ways: whether using Modbus-Alert\_SMS Configuration Software, that is by check the checkbox in the contact list item or by using SMS command. The later requires the contact number to be registered first in the Modbus-Alert\_SMS.

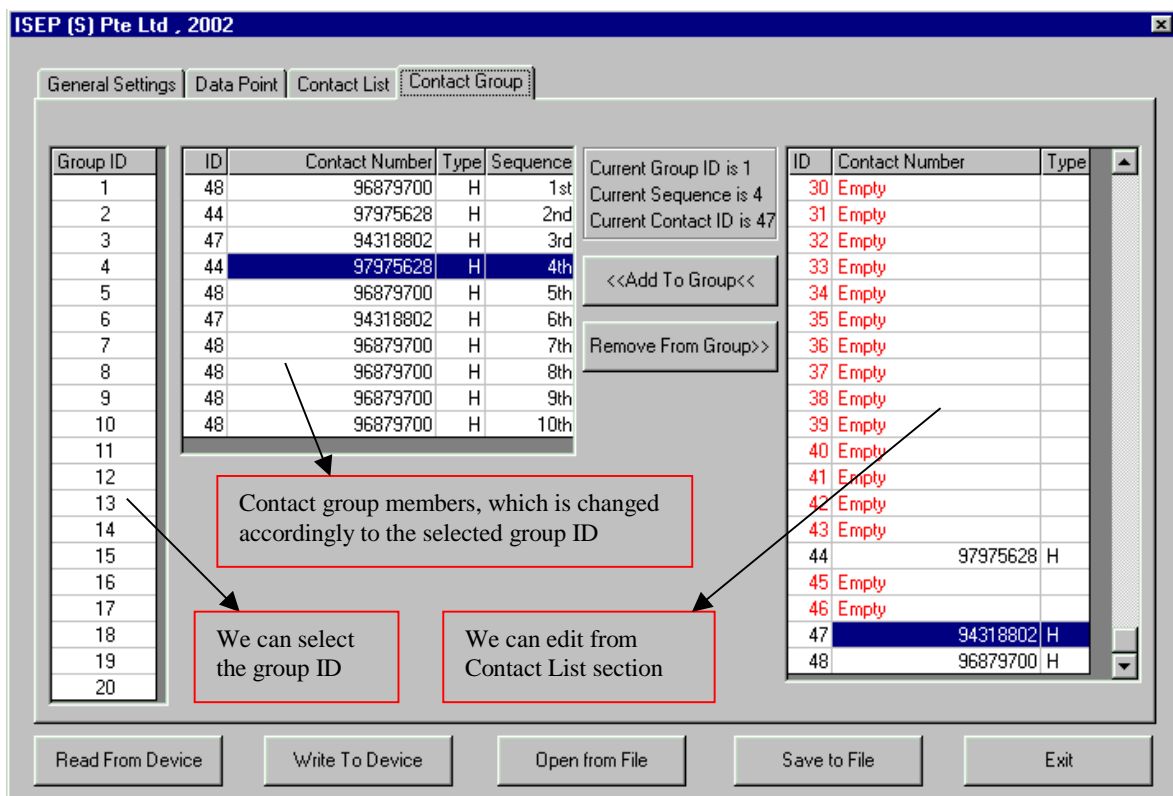
To apply the changes, just click the button. Once you apply the changes, you cannot undo it. If we want to undo the changes, just click undo changes.

The 5 last numbers are special numbers. This contact numbers are the numbers that are given a privilege to do write operations (Activate / Deactivate Alarm, Activate / Deactivate Contact Number, Set the value of Coil Status or Holding Register). The ID for these special numbers starts from 44 until 48. (We can differentiate it by looking at the green color of the entry in the list)

## 5.2.4. Contact Group

This section is used to manage how the alarm message are being sent. If the number of message is configured as 5 (**in General Settings section**), then 5 SMS' of a specific alarm will be sent in sequence order as specified There will be a delay interval between each message sent. The delay can be configured under “General Settings”.

The alarm's list of contact is defined by it contact group ID. We can define up to 20 contact groups. Each contact group can contain up to 10 contact numbers, which are registered under contact list section.



The entry with red color font at the contact list's list box shows that this entry is currently deactivated. To activate it, we need to go to contact list section parameter. Just select the correct checkbox.

To add a contact number to the contact group member just click *add to group* button. To remove, just click *remove from group* button.

**TIPS:** We can add a contact number twice or more into a group, which means that certain number will be contacted twice or more if the alarm is triggered.

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Now we have finished creating all the parameter that we need to upload. The next section will explain how to upload data / parameters, download the existing data / parameters, save data / parameters and open data / parameters.

### **5.3. Upload the data from Configuration Software to the device**

There are four buttons at the bottom of the form. Each of them has one function. Before we can upload, make sure we have connected the Modbus-Alert\_SMS device with our computer (where the Modbus-Alert\_SMS Configuration software is installed ) using serial connection.

#### **5.3.1. Write To Device**

This button is used for upload the data / parameter that we have from our Modbus-Alert\_SMS Configuration software to the Modbus-Alert\_SMS device.

One of the enhancement of this version of Modbus-Alert\_SMS is that we can upload the data / parameter partially (per section)

**TIPS:** When the General Settings tab is active, the software will only upload the General Settings Parameter to the Modbus-Alert\_SMS device. The same is applied for another three tabs.

#### **5.3.2. Read From Device**

This button is used for download the data / parameters that we have from our Modbus-Alert\_SMS device to the Modbus-Alert\_SMS Configuration software.

One of the enhancement of this version of Modbus-Alert\_SMS is that we can download the data / parameters partially (per section)

**TIPS:** When the General Settings tab is active, the software will only download the General Settings Parameter to the Modbus-Alert\_SMS Configuration software. The same is applied for another three tabs.

#### **5.3.3. Save to File**

This button is used to save the data /parameters configured from our Modbus-Alert\_SMS Configuration software to hard disk. The file can be opened latter for uploading and downloading to/from the Modbus-Alert\_SMS device.

One of the enhancement of this version of Modbus-Alert\_SMS is that we can save the data / parameters partially (per section)

**TIPS:** When the General Settings tab is active, the software will only save the General Settings Parameter.

There are four type of file can be saved or opened:

- General Setting File (\*.gsf)
- Data Point File (\*.dpf)
- Contact List File (\*.clf)
- Contact Group File (\*.cgf)

**TIPS:** The software will filter the file to be opened accordingly to the active tab.

### 5.3.4. Open from File

This button is used to open data /parameters file that was saved before using the Modbus-Alert\_SMS Configuration software. This new configuration file opened can be used for uploading and downloading to/from the Modbus-Alert\_SMS device.

One of the enhancement of this version of Modbus-Alert\_SMS is that we can open the data / parameters partially (per section)

**TIPS:** When the General Settings tab is active, the software will only open the General Settings Parameter.

There four type of file that can be opened, refer to **Save to File**

Now we can start using the Modbus-Alert\_SMS device. Just plug out the configuration cable, and change it to Modbus connection e.g connect to the PLC.

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## APPENDIX A Command Reference

The Modbus Alert SMS can support several command requests through the hand phone. We can divide it into 5 available command requests.

**TIPS:** All are not case sensitive and all leading space character will be ignored accordingly.

### GET

Read values of a data point and a description of a data point. This command support reading for holding register, input register, input status and coil status.

Syntax:

- (1) **GET VALUE** {*TAGNAME*}
- (2) **GET** {*CS | IS | HR | IR*} {*Slave Address*} {*Point Address*}
- (3) **GET DESC** {*TAGNAME*}

Examples:

- (1) To read data from point “ABCDEF GH”

“GET VALUE ABCDEF GH”

On successfully request, the system will reply the command using this format:

“VALUE OF ( ABCDEF GH ) = 123 CM”

- (2) To read data from point. CS Register at slave address of 1 and point address of 2

“GET CS 1 2”

On successfully request, the system will reply the command using this format:

“VALUE OF ( CS , 1 , 2 ) = 123”

- (3) To read the description of a point with tag name “ABCDEF GH”.

“GET DESC ABCDEF GH”

On successfully request, the system will reply the command using this format:

“DESC OF ( ABCDEFGH ) = ALARM FOR SURFACE LEVEL”

**TIPS:** The tag name must be registered to the device using Modbus-Alert\_SMS Configuration Software.

## SET

Read values of a data point and a description of a data point. This command supports reading for holding register and coil status.

Syntax:

- (1) **SET VALUE** {TAGNAME} {Value}
- (2) **SET** {CS | HR} {Slave Address} {Point Address} {Value}

Examples:

- (1) To write a value of a point “ABCDEFGH”

“SET VALUE ABCDEFGH 123”

On successfully request, the system will reply the command using this format:

“VALUE OF ( ABCDEFGH ) = 123 CM”

- (2) To write a value of a point : CS Register at slave address of 1 and point address of 2

“SET CS 1 2 123”

On successfully request, the system will reply the command using this format:

“VALUE OF ( CS , 1 , 2 ) = 123”

**TIPS:** This command is available only for contact list with ID from 44-48. (See Contact List Section)

## ACK

We can acknowledge an alarm using this command.

Syntax:

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## **ACK {TAGNAME}**

Examples:

To acknowledge an alarm with tag name “ABCDEFGH”

“ACK ABCDEFGH”

On successfully request, the system will reply the command using this format:

“ABCDEFGH is ACKNOWLEDGED”

## **ACTIVATE**

We can activate an alarm (enable it for monitoring) by using this command. This command also can be used to activate a contact number so it will be contacted when specified alarm triggered.

Syntax:

- (1) **ACTIVATE ALARM** {TAGNAME}
- (2) **ACTIVATE CONTACT** {Contact-ID}

Examples:

(1) To activate an alarm point with tag name “ABCDEFGH”

“ACTIVATE ALARM ABCDEFGH”

On successfully request, the system will reply the command using this format:

“ALARM ABCDEFGH is ACTIVATED”

(2) To activate a contact number with ID is 4 (It is based on **Contact List** parameters section)

“ACTIVATE CONTACT 4”

On successfully request, the system will reply the command using this format:

“Contact with ID- 4 is ACTIVATED”

**TIPS:** This command is available only for contact list with ID from 44-48. (See **Contact List** Section)

## **DEACTIVATE**

We can deactivate an alarm (disable it for monitoring) by using this command. This command also can be used to deactivate a contact number so it will not be contacted when specified alarm triggered.

Syntax:

- (1) **DEACTIVATE ALARM** {*TAGNAME*}
- (2) **DEACTIVATE CONTACT** {*Contact-ID*}

Examples:

- (1) To deactivate an alarm point with tag name “ABCDEFHG”

“DEACTIVATE ALARM ABCDEFHG”

On successfully request, the system will reply the command using this format:

“ALARM ABCDEFHG is DEACTIVATED”

- (2) To deactivate a contact number with ID is 4 (It is based on **Contact List** parameters section)

“DEACTIVATE CONTACT 4”

On successfully request, the system will reply the command using this format:

“Contact with ID- 4 is DEACTIVATED”

**TIPS:** This command is available only for contact list with ID from 44-48. (See **Contact List** Section)

## APPENDIX B TROUBLE SHOOTING

NO	ERROR MESSAGES / “ERROR”	POSSIBLE CAUSE
1	“GET/SET POINT VALUE FAIL! “	a. The value that we read is invalid e.g. out of range (defined in Data Points) We need to redo the command. b. The data does not exist (wrong address)
2	Try to set value but the value unchanged	a. We try to write to a wrong register type e.g. IS and IR b. We try to write an out of range value
3	"..... COMMAND IS FAILED”	a. Wrong syntax of command b. The user is not allowed to send a command e.g. SET, ACTIVATE and DEACTIVATE is only for certain Contact ID c. Wrong Tag name if we send reference related commands e.g. GET VALUE .....
4	There is no response from Modbus-Alert_SMS device when we send a command	a. We have not set the configuration b. The configuration has not been uploaded c. The hand phone number is not registered  <b>TIPS:</b> Make sure put the correct information regarding general settings especially the modbus settings and gsm/modem settings

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## TROUBLE SHOOTING (CONTINUED)

5	There is no alarm message sent even there is an alarm triggered	<ul style="list-style-type: none"><li>a. We have not set the configuration properly</li><li>b. The configuration has not been uploaded</li><li>c. The hand phone number / alarm is not registered / activated</li><li>d. The alarm has been acknowledged</li><li>e. The connection between Modbus System with the device is error</li><li>f. The connection between GSM modem with the device is error</li></ul> <p><b>TIPS:</b> Make sure put the correct information regarding general settings especially the modbus settings and gsm/modem settings. And also don't forget to put the correct Contact Group ID</p>
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### ANY TECHNICAL ENQUIRIES:

**CONTACT US** : **ISEP (S) Pte Ltd**  
**Tel : (65) 3564237**  
**Fax: (65) 3567322**  
**Email : [supports@ise-p.com](mailto:supports@ise-p.com)**  
**<http://www.ise-p.com>**