WONDE PROUD TECHNOLOGY.

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Table of Content

1. Safety Instruction:

Please read below safety instruction carefully before use this device.

This product is integrated with RF module FCC ID.: UDV-0606020060002
which specifications refer as FCC RF exposure requirement .
The antenna used for this transmitter must not be co-located or operating

in conjunction with any other antenna or transmitter .

2. Checking Supplied Items:

Make sure you have the following items supplied with your SPT100 device. The number of in the parentheses indicates the number of that item supplied.

Cigarette Lighter Power Adapter (1)

USB Communication/Power Cable (1)

AC adapter   (1), [Optional]

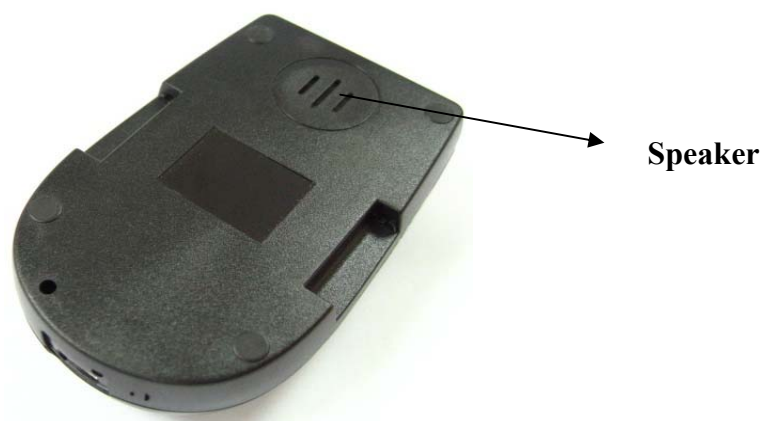American model

OR

European model

3. Introduction to WondeX SPT100 Device:

This "SPT100 Operation User Manual" describes the basic operation for WondeX STP100 device. For the detail functionalities, please refer to the "WondeX SPT100A Protocol Document".

<u>Front View</u>

Power Button

LCD Display

SIM Card Slot

Microphone

5 Function Keys:

Function key 1

Function key 2

Function key 3

Function key 4

Function key 5

USB Connector

<u>Back View</u>

Speaker

4. How to Charge the SPT 100 Device:

You can charge the SPT100 device by following ways: charging by connecting to a computer USB port, charging by a cigarette lighter power adapter, or AC adapter. While SPT 100 device is charging, the battery indicator is blinking. Once the charging process is completed, the battery indicator stops blinking.

1. **Charging by a computer USB port:**
   Connect the supplied USB cable between the computer USB port and the mini USB connector of the SPT 100 device. If the computer does not have the driver for SPT100 installed, them the Windows OS might ask for the SPT100 device. The driver of SPT100 device is not required for battery charging.

2. **Charging by a cigarette lighter power adapter:**
   a. Plug the USB connector of the supplied USB cable to the USB connector of the cigarette lighter power adapter.
   b. Connect the mini USB plug of the USB cable to the mini USB port of the SPT100 device.

3. **Charging by AC adapter:**
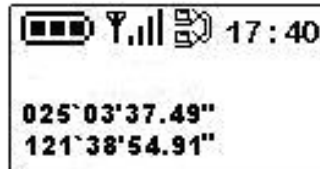   Connect the supplied AC adapter to the mini USB port of the SPT 100 device.

5. Insert SIM Card:

Please insert the SIM card in the direction of the arrow until it can not move forward. .
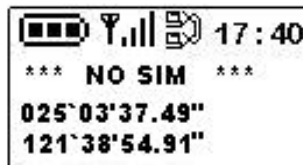

Direction

SIM Card

6. Power On/Off the Device:

Press and hold the "Power Button" for 3 seconds to turn on/off the device. The device will play sound during startup and turn off process. If the device startup successfully then LCD screen appears the information that similar to the following figure:
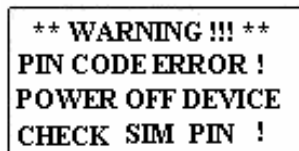
```
📶 ▓▓▓ 🔋 17:40

025`03'37.49"
121`38'54.91"
```

If the device detects no SIM card inserted then the following information appears:

```
📶 ▓▓▓ 🔋 17:40
***  NO SIM  ***
025`03'37.49"
121`38'54.91"
```

Notes:

1. Before power on the device, please ensure the PIN code for the SIM card is correct to prevent the SIM card locked due to enter incorrect PIN code.

```
** WARNING !!! **
PIN CODE ERROR !
POWER OFF DEVICE
CHECK  SIM  PIN  !
```

If you have seen the above message, either you might use your mobile phone to disable the PIN code function for the SIM card or using below steps to enter correct PIN code.
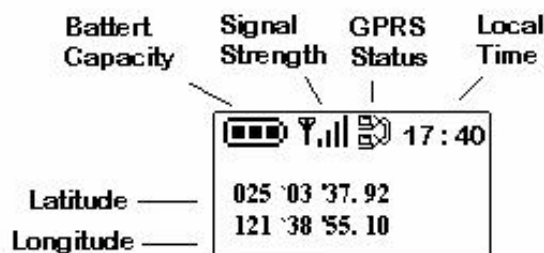
   a. Establish the USB communication between the SPT100 device and the Hyper Terminal program.
   b. Issue command $WP+UNCFG with correct PIN code in the "PT 100 Utility" or "Hyper Terminal" program then power off and on the device again.

2. If GPS is not fixed then the coordinate (longitude and latitude) will be blinking, otherwise the coordinates information will stop the blinking behavior.

7. Mode Selection:

There are 3 different types of information can be displayed on the LCD screen. Please press the "Power Button" for 1 second to switch different modes.

7.1 Normal Mode:

The default mode, the "Normal Mode" displays after the unit startup. This LCD screen shows the information about battery capacity, GSM signal strength, local time (based on the Time zone adjustment setting), GPRS connectivity status, and GPS coordinates (longitude and latitude). Please refer to the following figure:

Battery capacity: Internal battery status.
Signal Strength: GSM signal strength.
GPRS Status:

- If the unit is configured under GPRS mode then the icon 🔊 will be

  blinking until the GPRS establish the connectivity successfully.
- If the unit is configured under other than GPRS communication, then the

  device shows icon 🔲 .

Local Time: time information is based on the time zone adjustment setting.
Latitude and Longitude:
- Blinking: GPS has not fixed yet.
- Non-blinking: GPS signal is received and fixed.

7.2 GPS Mode:

This mode shows the GPS information and also provides the basic information or further GPS information for advanced uses.

7.2.1 Basic Information:

- **With no GPS Fixed:**

  If there is no GPS reception, the last valid GPS information will be displayed and date time will be the RTC (Real Time Clock) time format. Please refer to the following figure:

  Year/Month/Day: Last valid GPS date based on the time zone adjustment setting.
  Hour: Min: Sec: Last Valid GPS time based on the time zone adjustment setting.
  Latitude & Longitude: Last valid GPS coordinates.
  No FIX: GPS has not fixed yet.

- **With GPS Fixed:**

  If there is a GPS reception, the GPS information will be displayed on the screen. Please refer to the following figure:

  Year/Month/Day: Current GPS date based on the time zone adjustment setting.
  Hour:Min:Sec: Current GPS time based on the time zone adjustment setting..
  Latitude & Longitude: Current GPS coordinates.
  Speed: Speed (Km/h) based on the GPS information.
  Heading: Direction based on the GPS information
  Altitude: Height from Sea Level based on the GPS information
  Number of Satellite: Number of satellite fixed.

7.2.2 Advanced Mode:

Under the GPS mode, press and hold the "Function Key 1" for 3 seconds to enter the advanced mode. It provides the detail satellite information and the signal strength for each satellite. The screen will be displayed similar to following figures according to GPS status:

● **With GPS Fixed:**

25	36	33	29	22	21	20	21
40	09	12	14	18	21	22	24
20	15	28	25				
26	29	30	40				

R1
R2
R3
R4

Note:
R1 and R3 indicate the signal strength.
R2 and R4 indicate the number of satellites.

● **With GPS not Fixed:**

			29		21		
40	09	12	14	18	21	22	24
		28					
26	29	30	40				

R1
R2
R3
R4

Note:
R1 and R3 indicate the signal strength.
R2 and R4 indicate the satellite's number.

Exit "Advance Mode":
1. Please press "Function key 1" for 3 seconds to return to GPS mode.
2. Press "Power button" for 1 second to exit this mode and enter to "Dialing Mode".
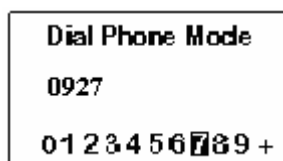
7.3 Dialing Mode:

Enter "Dialing Mode" to make a phone call. After enter this mode, the screen appears similar to the following:

```
Dial Phone Mode


0 1 2 3 4 5 6 7 8 9 +
```

Please follow below instructions to make a phone call:

Function Key 1
- Enter selection: press this key to enter a selective number
- Enter selection: press and hold this key for 3 seconds to make dialing process.

Function Key 2: Delete the last entered digit.

Function Key 3: Shift the cursor to the right

Function Key 4: Shift the cursor to the left

Once you select a number and quick press the function key 1 then entering number will appear in the center of the LCD screen. Please refer to the following for example:

```
Dial Phone Mode
0927

0 1 2 3 4 5 6 7 8 9 +
```

Note:

If no button is pressed within 60 seconds, the LCD screen returns back to the "Normal Mode" automatically.

Exit "Dialing Mode":

1. Press the "Power Button" for 1 second to return to the Normal Mode.

8. Answer/Hang up Incoming Calls:

8.1 Answer an Incoming Call:

When a phone call is incoming, please press any key <u>EXCEPT</u> the "Function Key 5" to pick up the phone call.

8.2 Hang up an Incoming Call:

Quick press the "Function Key 5" to hang up or reject the incoming phone call.

9. Voice Volume Adjustment:

The volume up/down only can be adjusted while the voice phone call is processing.

Volume up: Press "Function Key 3" to increase voice volume.

Volume down: Press "Function Key 4" to decrease voice volume

<u>**Note**</u>:

1. While volume level is adjusting, the percentage will be displayed on the LCD screen.
2. Please be aware that the volume level will be "remembered" until the user makes the adjustment again (increasing or decreasing volume).
3. The volume control can affect the incoming and outgoing calls, but not rings for incoming calls. If you have adjusted the volume to 0% while in the voice communication then the volume level will be 0% (mute) for the next incoming or outgoing call.

10. Quick Dial Function:

This device allows user to define up to 3 quick buttons (Function Key 2, 3, and 4). Please use the "PT100 Utility" software to configure the Quick Dial Numbers. This quick dial function can be applied in any time regardless what current mode is.

Please press and hold the function key for 3 seconds to start the dialing process.

Once this function is applied, the dialing process will be displayed on the LCD screen as following:

If a non-defined quick dial key is pressed, then a message "No Phone" is displayed for 3 seconds as following:

11. Sending Emergency SMS Messages to Emergency Contacts:

This device will send the emergency GSM Messages to the assigned contact phone number up to 5 sets. Please use the software "PT100 Utility" to configure the contact numbers. Once the "Function Key 5 [SOS]" has been pressed and held for 3 seconds regardless what current mode is then the device sends a message (with Report ID 4) back to the control center or an alert GSM text message to assigned contact numbers as following:

Message to control center:
1010000001,20070313170020,121.123456,12.654321,45,233,0,9,**4**

GSM text message to contact phone numbers
Emergency Report
Unit ID: 1XXXXXXXXX
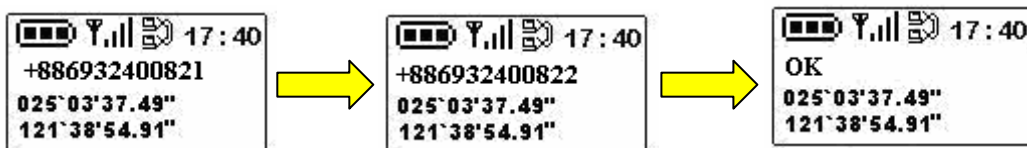Data/Time: (YYYYMMDDHHMMSS)
Long:XXX.XXXXXX
Lat: XXX.XXXXXX
Speed: XXX Km/h
Satellites: XX

Once the emergency button is pressed and held for 3 seconds, the message sending process is displayed on the LCD screen as following:

Example: sending the emergency text message to 2 contact numbers:

Note:
Please refer to the protocol document for detail setting information.

12. Unauthorized Movement Alert:

The SPT 100 provides a function which can detect the unauthorized movement after enabling the "Park" function. The device is able to send a message (with Report ID 5) back to the control center or an alert GSM text message to assigned contact phone numbers once this event is detected and triggered.

Message to control center:
1010000001,20070313170020,121.123456,12.654321,45,233,0,9,**5**

GSM text message to contact phone numbers
Moving Alert
Unit ID: 1XXXXXXXXX
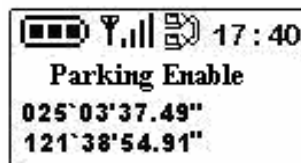Data/Time: (YYYYMMDDHHMMSS)
Long:XXX.XXXXXX
Lat: XXX.XXXXXX
Speed: XXX Km/h
Satellites: XX

Enable/disable the Parking function:

Under the "Normal Mode", press and hold the "Function Key 1" (PJ) for 3 seconds to enable/disable the "Parking function".

If the "Parking function" is enabled, the LCD screen shows the "Parking Enabled" message in the center of screen. Please refer to the following figure for reference:

Note:

1. This function will be activated after 180 seconds of enabled "Parking function".
2. The report will NOT be sent if it has been disabled within 1 minute after event triggering.
3. Please refer to the protocol document for detail setting information.

13. Key Lock/Unlock Function:

To prevent executing unwanted function carelessly, the device provides the "Key lock" and "Key unlock" function. While the key is locked, all buttons will be disabled until the "key lock" function is disabled.

Enable/Disable "Key Lock/Unlock" function:

Press and hold the "Power Button" and "Function Key 5 " simultaneously for 1 second to enable/disable this function.

The LCD display will display the "Button Lock" message on the LCD screen while perform the "Key Lock" function and display the "Button un-lock" message while perform the "Key-unlock" function while perform the "Key-unlock" function.

14. About Wonde Proud Technology

The SPT 100 series device is manufactured by Wonde Proud Technology. Wonde Proud Technology provides advanced solution for GPS related solutions including the various GPS components, Automatic Vehicle Location (AVL) device (data logger & real time tracking devices). Please contact us at the phone and fax number listed below or visit our website for further product information.

Wonde Proud Technology

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