PT300
User Manual

Table of Contents

1 Purpose 3
2 Introduction 3
2.1 What is a PT300 ..... *3*
2.2 How does a PT300 work *3*
3 Getting Started 3
3.1 Battery Tips *3*
3.2 Installing the Battery *4*
3.3 Removing the Battery *4*
3.4 Charging the Battery *4*
3.4.1 Charging using the PT300 Device 4
3.4.2 Charging using Gang Charger 4
4 Provisioning Your Device 4
5 PT300 Command Set 5
6 Locating Your PT300 6
6.1 Frequent Tracking *6*
6.2 Periodic Tracking *6*
6.3 Fast Tracking *7*
7 Using the Diagnostic Tool 7
8 Troubleshooting 8
9 Important Safety and Legal Information 9
9.1 RF Energy Interference/Compatibility *9*

1 Purpose

The purpose of this guide is to describe the basic features of the PT300.

2 Introduction

2.1 What is a PT300

- The PT300 is a wireless tracking device which operates on the CDMA network using assisted GPS for location.
- It is used for tracking valuable packages or assets.

2.2 How does a PT300 work

- It establishes a data connection through either the cellular or the PCS band similar to a mobile phone.
- A user can send a SMS message through an internet connection or a mobile phone to the device by calling its phone number. The device gets its location and send it back to the user via the CDMA network.

3 Getting Started

3.1 Battery Tips

Battery life depends on the network, signal strength,
temperature, features, and accessories you use.

- Always use Sendum Original batteries and battery chargers. The warranty does not cover damage caused by non-Sendum batteries and/or chargers.
- New batteries or batteries stored for a long time may take more time to charge.
- When charging your battery, keep it near room temperature.
- When storing your battery, keep it uncharged in a cool, dark, dry place, such as a refrigerator.
- Never expose batteries to temperatures below -10°C (14°F) or above 45°C (113°F). Always take your device with you when you leave your vehicle.
- It is normal for batteries to gradually wear down and require longer charging times. If you notice a change in your battery life, it is probably time to purchase a new battery.

Contact your local recycling center for proper battery disposal.

Warning: Never dispose of batteries in a fire because they may explode.

Before using your device, please read the battery safety information in the *Safety and General Information* section included in this guide.

3.2 Installing the Battery

Slide the battery pack into the PT300 battery slot using the guiding tabs until the latch clicks into place.

3.3 Removing the Battery

Pull the latch and slide the battery pack away from the PT300 housing at the same time.

3.4 Charging the Battery

New batteries are shipped partially charged. Before you can use your device, install and charge the battery as described below. Some batteries perform best after several full charge/discharge cycles.

3.4.1 Charging using the PT300 Device

Simply attached the Sendum charger into the device and plug the AC adapter to the AC outlet.

3.4.2 Charging using Gang Charger

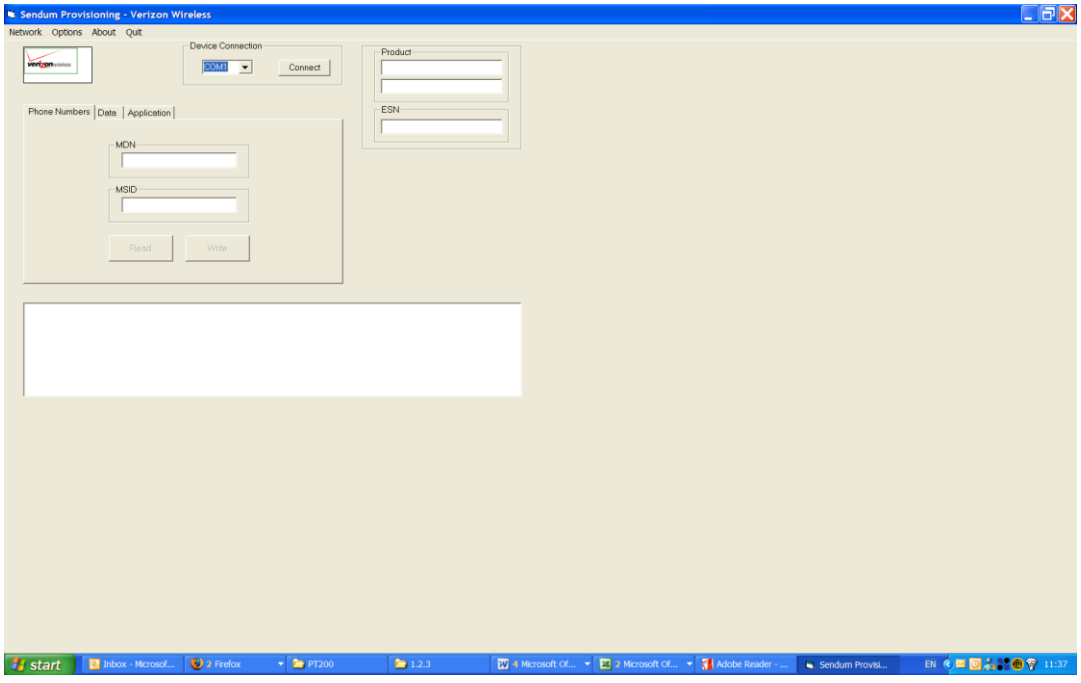
To be updated later.

4 Provisioning Your Device

- Connect your device using the sendum USB cable. If problem communicating with the device. Use the following documents for troubleshooting:

DEX00003 (DOC
QUALCOMM USB [

- Open the Sendum Provisioning Tool. Should look like:



- Select the com port that the device is communicating, then press “Connect”. The ESN will be shown.
- If the device is already provisioned, the “Read” button is used to check.
- Now all provisioning parameters can be entered into the appropriate boxes.
- Press “Write” to load into the device.

5 PT300 Command Set

The PT300 supports the following commands. There are sent to the device using SMS messages:

//BREW:0x12345678:PSW2,PROVISION,PDE,<ip_address>:<port>

Sets the PDE address used by the device. In control plane architectures, this is the address of the Control Plane Server. In user plane architectures, this is the address of the actual PDE.

//BREW:0x12345678:PSW2,PROVISION,APP,<ip_address>:<port>

Sets the APP address of used by the device. All messages from the device are sent to this IP address.

//BREW:0x12345678:PSW2,COMMAND,STATUS

Causes the device to send a status report.

//BREW:0x12345678:PSW2,COMMAND,LOCATE

Causes the device to locate itself and send a location report.

//BREW:0x12345678:PSW2,REPORT,STATUS,<interval>

Causes the device to send a status report every <interval> seconds.

//BREW:0x12345678:PSW2,REPORT,LOCATION,<interval>

Causes the device to send a location report every <interval> seconds.

The device sends the following messages to the APP IP address:

@RESPONSE,<MDN>,PSW2,RESPONSE,STATUS,BATTERY=<0..255>,
TEMPERATURE=<0..255>

Indicates device status.

@RESPONSE,<MDN>,PSW2,RESPONSE,LOCATE,FOUND

Indicates that the device found itself. This is in response to a command to locate the device. Actual location results are returned from the PDE and vary from carrier to carrier.

6 Locating Your PT300

In order to **Locate** your PT300, send it the following SMS message:

PSW1,LOCATE,0

6.1 Frequent Tracking

In order to **Track** (repeated locating) your PT300, send it an SMS message in the following format:

PSW1,LOCATE,X

where the value of **X** is specified according to the following table:

1	wait 15 seconds before locating again
2	wait 30 seconds before locating again
3	wait 45 seconds before locating again
4	wait 60 seconds before locating again
5	wait 75 seconds before locating again
6	wait 90 seconds before locating again
7	wait 105 seconds before locating again
8	wait 120 seconds before locating again
9	wait 135 seconds before locating again

To stop **Tracking** your PT300 in this mode, send it the following SMS message:

PSW1,LOCATE,0

6.2 Periodic Tracking

In order to **Track** (repeated locating) your PT300, send it an SMS message in the following format:

PSW1,REPORT,X

where the value of **X** is specified according to the following table:

1	wait 15 minutes before locating again
2	wait 30 minutes before locating again
3	wait 45 minutes before locating again
4	wait 60 minutes before locating again
5	wait 75 minutes before locating again
6	wait 90 minutes before locating again

7	wait 105 minutes before locating again
8	wait 120 minutes before locating again
9	wait 135 minutes before locating again

To stop **Tracking** your PT300 in this mode, send it the following SMS message:

`PSW1,REPORT,0`

6.3 Fast Tracking

In order to **Track** (repeated locating) your PT300, send it an SMS message in the following format:

`PSW1,FIND`

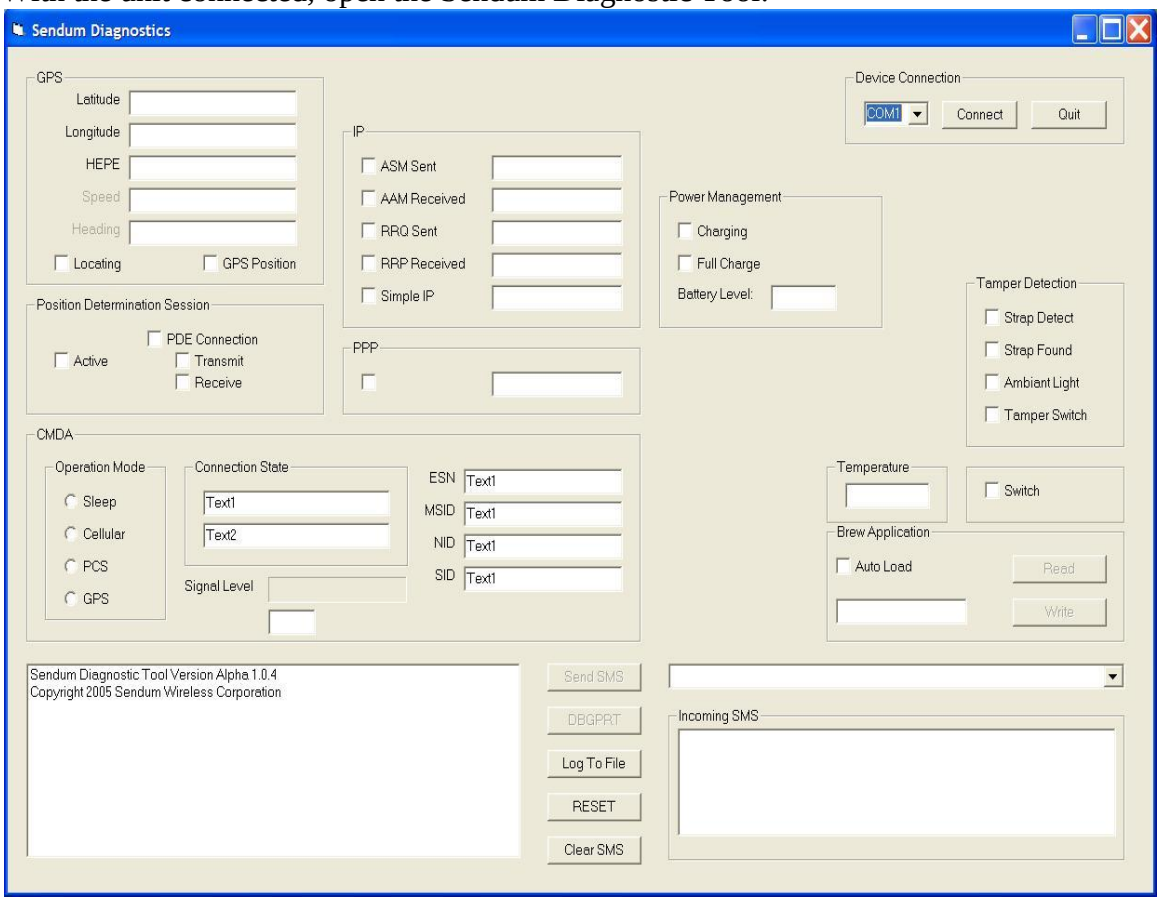
Your PT300 will wait three seconds before locatiing again.

To stop **Tracking** your PT300 in this mode, send it the following SMS message:

`PSW1,STOPFIND`

7 Using the Diagnostic Tool

With the unit connected, open the Sendum Diagnostic Tool:



8 Troubleshooting

Email your requests to supports@sendum.com

9 Important Safety and Legal Information

IMPORTANT INFORMATION ON SAFE AND EFFICIENT OPERATION. READ THIS INFORMATION BEFORE USING YOUR DEVICE.

- Never attempt to disassemble your PT300. If service or repair is required, return the device to an authorized Sendum service centre.
- Always use Sendum provided accessories. Use of incompatible equipment could result in fire, electric shock, or bodily injury.
- Never allow children to play with your PT300.
- Never store or transport flammable liquids, gases, or explosive materials in the same compartment as your PT300 or any of its accessories.
- Always secure your PT300. Never place the device on the passenger seat or anyplace else in the vehicle where it can become a projectile during collision or sudden stop.
- Never expose your PT300 to high temperatures, such as those found near a heater. This can cause heat damage to the plastic components, the electronic components, and the backup battery.
- Never drop your PT300 or expose it to violent impact or shock. This can cause mechanical damage.
- Never use harsh chemicals, cleaning solvents, or strong detergents to clean your PT300.
- Never attempt to dispose of your PT300 by throwing it into a fire.
- Your PT300 is not to be operated in body-worn applications. Keep your PT300 twenty (20 cm) centimeters or more from a human body when operating.
- Ensure your PT300 is powered off prior to shipping by air.
- Do not proceed into areas posted “Turn off two-way radio”, such as blasting areas.
- Do not install your PT100 in the area over an airbag. If the airbag inflates, serious injury could result.

9.1 RF Energy Interference/Compatibility

Note: Nearly every electronic device is susceptible to RF energy interference from external sources if inadequately shielded, designed, otherwise configured for RF energy compatibility. In some circumstances your PT300 may cause interference.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

SENDUM WIRELESS, CORP.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

--Reorient or relocate the receiving antenna.
--Increase the separation between the equipment and receiver.
--Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
--Consult the dealer or an experienced radio/TV technician for help.