

SPECIAL NOTE :

This Users Guide is for use with v2.1 of the PRU+ Firmware. See PRU+ Basics on Page 9 for information regarding how to determine the PRU+ Firmware version. Different versions of the PRU+ software may not have the same features described in this manual and / or may function differently than this manual states.

FCC STATEMENT:

This device complies with Part 15 of the FCC rules. Operation is subject to conditions: (1) This device may not cause harmful interference, and (2) this device must accept interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by STRATEGIC Technologies Inc. invalidate any approval or warranty applying to the product and can void the user's authority to operate this equipment.

Platinum Plus New Features and Enhancements

Quick Install Mode

This new feature makes installation of the PRU+ quicker and more convenient. The visual display screen on the front of the PRU+ will prompt the installer for each step and guide them through the installation process. For a more detailed description, see page 44.

Domestic Violence Deterrent System - more detailed support

The PRU+ now has more detailed support for Strategic's Domestic Violence Deterrent system. The Domestic Violence Deterrent System is designed to provide curfew monitoring for both the offender and the victim. The PRU+ contains a specific setting for the transmitter, in the form of a pendant, which is worn by the victim. This enables the PRU+ to determine if the offender, wearing a transmitter, entered the victim's area or if the pendant transmitter was activated by the victim. There is also support for an optional panic button that enables the victim to send a panic message to the monitoring center. For a more detailed description, see page 32.

Tone Dialling

The PRU+ now supports both styles of dialling (tone and pulse). For further details see page 36.

A more convenient method to set a Dial Prefix

In some situations (ie: hotels and offices), a dial prefix may be required to enable the PRU+ to dial from that location. An extra digit, such as "9", can be added without necessitating a change of the entire number to be dialled. For a more detailed description, see page 38.

Motion Sensor

The PRU+ now has the ability to determine if it is being moved. See page ? For more details.

Automatic saving of changes

All changes to any programmed settings are now automatically saved when they are edited.

Table Of Contents

PRU+ Overview	Page 6
Required field equipment for installing and/or removing a unit	Page 6
PRU+ Basics	Page 7
Turning the PRU+ on	Page 7
Turning the PRU+ off	Page 7
Figure 2 : Front Panel Display.....	Page 7
PRU+ Indicator Lights and Buttons.....	Page 8
PRU+ Operation (Run Mode).....	Page 8
PRU+ Calling the Central Computer	Page 9
Call Attempt Error Messages	Page 9
Blind Dial Mode	Page 10
PID Basics	Page 11
Features	Page 11
Resetting the PID	Page 11
Figure 2 : Resetting a PID	Page 11
LOCK Basics	Page 12
Replacing the Battery	Page 12
FVU Basics.....	Page 13
Setting up the FVU	Page 14
Setting the date and time	Page 14
CMU Basics.....	Page 15
Installation	Page 15
Removal	Page 15
PRU+ Installation Procedures.....	Page 16
Active Mode Installation	Page 17
Pre-Installation.....	Page 17
PRU+ Installation - Quick Install	Page 17
PID Installation	Page 18
Figure 3: Installing the battery in the PID	Page 18
Figure 4 : Strap Installation	Page 18
Figure 5 : Attach the PID to the baseplate	Page 19
Figure 6 : Slider Bar	Page 19
Installation Completion	Page 19
PRU Installation - Classic.....	Page 20
PID Installation	Page 20
Figure 3: Installing the battery in the PID	Page 20
Figure 4 : Strap Installation	Page 21
Figure 5 : Attach the PID to the baseplate	Page 21
Figure 6 : Slider Bar	Page 21
Installation Completion	Page 22

De-Installation / Removal	Page 23
Passive Mode	Page 24
Important Information Regarding Passive Mode Operation	Page 24
Passive Mode Installation	Page 25
Pre-Installation.....	Page 25
PRU Installation - Quick Install.....	Page 25
PID Installation	Page 25
Figure 3: Installing the battery in the PID	Page 26
Figure 4 : Strap Installation	Page 26
Figure 5 : Attach the PID to the baseplate	Page 26
Figure 6 : Slider Bar	Page 27
Installation Completion	Page 27
PRU Installation - Classic.....	Page 27
PID Installation	Page 28
Figure 3: Installing the battery in the PID	Page 28
Figure 4 : Strap Installation	Page 28
Figure 5 : Attach the PID to the baseplate	Page 29
Figure 6 : Slider Bar	Page 29
Installation Completion	Page 29
Downloading Information inside the PRU+	Page 30
De-Installation / Removal	Page 30
Domestic Violence.....	Page 32
Domestic Violence Installation	Page 33
Pre-Installation.....	Page 33
PRU+ Installation.....	Page 33
Check the Participant's PID	Page 33
Figure 3 : Test Mode Display	Page 42
Quick Install	Page 44
Motion Sensor	Page 45
PRU+ / PID Preventive Maintenance.....	Page 46
Returned PRU+'s	Page 46
Physical Checks	Page 46
Figure 7 : Underneath a PRU+	Page 46
Electrical Checks.....	Page 47
Figure 8 : Test Mode Display	Page 47
Returned PID's	Page 48
Physical Checks	Page 48
Figure 9 : The Underneath of a PID.....	Page 48
.....	Page 48
Electrical Tests	Page 48
Testing a PID.....	Page 48
Returned Straps	Page 49
Figure 11 : Strap Cleaning	Page 49

Individual Status Log Report	Page 50
Events.....	Page 50
Event Type Definitions	Page 51
Explanation of the Individual Status Log Report.....	Page 53
Frequently Asked Questions	Page 56
Trouble-Shooting	Page 58
PRU Tips	Page 58
PID Tips.....	Page 60
FVU Tips.....	Page 61
LOCK Tips.....	Page 61
System Definitions.....	Page 62

PRU+ Overview

Strategic's Platinum Plus (PRU+) combines ease of use with unequalled flexibility. The features of the PRU+ have been designed to simplify equipment installation and program management, and to provide for future expansion and enhancements. The features of the PRU+ include:

Small footprint - 0.4 square feet

Lightweight (4.2 lbs)

Compact, aesthetic design

Removable AC power adapter, with latching connector

Two RJ-11 modular telephone jacks for a line connection and a telephone

15-pin expansion connector

16-character by 2-line visual display panel for displaying configuration settings, installation instructions, and other information

Two front panel input buttons for user input and changing configuration settings

Internal Antenna

Variable Range (Adjustable)

Y2K Compliant

New Proprietary Signal Processing

Quick Install Mode

Required field equipment for installing and/or removing a unit

To install or remove the PRU+ / PID set, or to use any of the special function mode features, only the following items are required:

- The PRU+ / PID set complete with strap, locking bar and pin
A Platinum Plus Series LOCK
Scissors
- Small flat head (slotted) screwdriver

PRU+ Basics

Turning the PRU+ on

To begin the installation process, the PRU+ must be turned on. To turn the PRU+ on, simply connect the AC adapter to the back of the PRU+ (See Figure 1 below) and plug the adapter into a standard wall outlet. **Note: Do not connect the telephone line.** The PRU+ will immediately activate, sounding one or more beeps, and is ready for the next step in the installation process.

Figure 1 : Back



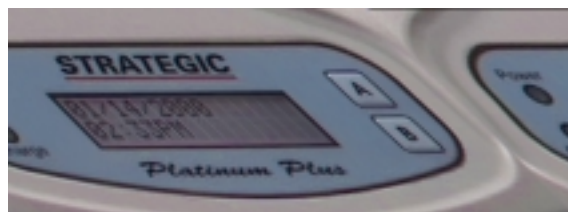
Panel of the PRU+

Turning the PRU+ off

Removing/disconnecting AC power will not turn the PRU+ off. Removal of AC power will cause the PRU+ to function using its internal battery. The PRU+ will continue to operate until the internal battery is exhausted, or the PRU+ is turned off by using the LOCK.

To turn the PRU+ off, the use of the LOCK is required. Simply press the  PRU+ button on the LOCK, while holding the LOCK within three feet of the PRU+. The front panel display (see Figure 2 below) will display two choices: "A=Turn PRU+ Off" and "B=Function Mode". Press the "A" button (see Figure 2 : Front Panel Display) on the PRU+ front panel. When the "Remove AC power now..." message is displayed, unplug the AC adapter. The PRU+ will then shut off. If AC power has already been disconnected, the PRU+ will shut off as soon as the "A" button is pressed. While the PRU+ is off, either because it was deliberately turned off or has turned off due to an AC power loss long enough to exhaust the internal battery, all stored information is maintained using a separate back-up battery.

Figure 2 : Front



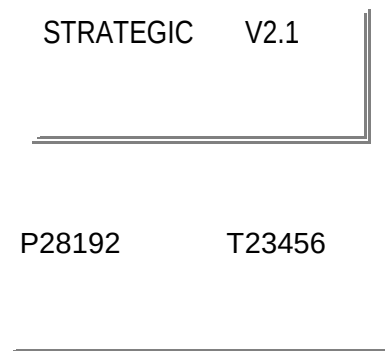
Panel Display

PRU+ Indicator Lights and Buttons

The "Power" and "Charge" lights on the front of the PRU+ (see Figure 2 : Front Panel Display) indicate the presence/absence of AC power, and whether or not the internal battery is being charged. If the AC Light goes out, this indicates the PRU+ has been disconnected from AC Power. When the Charge light goes out, this indicates that the internal battery is fully charged. The "A" and "B" buttons on the front panel will not function during normal monitoring operation and therefore the participant is not able to affect the operation of the unit should the buttons be pushed. These buttons are only usable when the PRU+ is in Special Function Mode. While in Special Function Mode the PRU+ will prompt you to push a button to access a particular feature (ie: If the PRU+ reads A=Turn RU off; pushing the button labelled A will turn the PRU off).

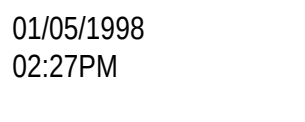
PRU+ Operation (Run Mode)

When the PRU+ is turned on, it first performs a diagnostic check of its internal memory and program. During these checks the PRU+ will make one or more beeps. The front panel display will be initialized and a title screen indicating the current software version (ie: 2.1), the PRU+ serial number (ie P28192), and the PID serial number (ie: T23456) will be displayed, as shown below.



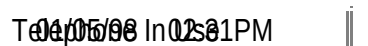
```
STRATEGIC  V2.1
P28192      T23456
```

This title screen will be displayed for several seconds, and the display will automatically be cleared. The date and time will then be displayed, as shown below. If this date / time is incorrect it will be automatically updated when the PRU+ calls the central computer (CC). When the PRU+ is operating correctly, the colon (":") between the hours and the minutes of the clock display will blink approximately every 1.5 seconds.



```
01/05/1998
02:27PM
```

When the PRU+ is connected to a telephone line, the PRU+ will immediately attempt to place a call to the central computer. While the telephone line is in use, the PRU+ will display the message "Telephone In Use", as shown. **NOTE: The clock on the display will not change while a call is in progress.**



```
Telephone In Use
01/05/98 02:31PM
```

During a call, if successful, the PRU+ will receive configuration parameters, the current date / time from the central computer, and all stored information in the PRU+ will be transmitted to the CC. It will also receive the participant's curfew information for the current day and the following day. When the call has been completed, the PRU+ will display the result of the call, either "Call Successful", or an error message such as "No Dialtone", "CC Busy", etc. (See Call Attempt Error Messages Page 9 for more details).

01/05/98 02:32PM

Call Successful

Between phone calls, the PRU+ will display only the date and time. When the PRU attempts to call the central computer, the PRU+ will report its status on the bottom line of the display.

PRU+ Calling the Central Computer (CC)

The PRU+ will periodically call the central computer, for either a scheduled call-in check, to report an alarm or to report an alarm clear event. These calls will proceed in exactly the same fashion as described in the section above "PRU+ Operation". If a call attempt fails, the PRU+ will display the reason for the failed call attempt on the bottom of the display. The PRU+ will attempt to call again in a few minutes, and repeatedly at varying intervals, until the maximum re-dial attempts (14 attempts) is made. Any event that is generated after the maximum re-dial attempts is made will cause the PRU+ to repeat the dialling sequence. While the PRU+ is waiting to make another call attempt, if the previous attempt failed, a code indicating the reason for the failure will be displayed at the bottom right corner of the display. This code matches the previously displayed message. The codes are as follows:

Call Attempt Error Messages

<u>Code</u>	<u>Display Message</u>	<u>Description</u>
2	CC Busy	The CC number was busy.
3	No Dialtone	The participant's phone line was already in use.
4	No Connect	The call was interrupted while the PRU+ was dialling or the PRU+ dialled but never connected to the CC.
5	Communication Error	The call was interrupted while connected to the CC.
B	Blind Dial	If any call attempt errors occur while the PRU+ is in blind dial mode a "B" will be placed to the right of the numeric code. (See below for more information on blind dial mode).

Blind Dial Mode

If the PRU+ has made three (3) attempts where a "No Dialtone" has been indicated, the PRU+ will automatically default into blind dial mode. This will enable the PRU+ to attempt to connect to the Central Computer even if the dial tone used by the local phone company is non-standard and cannot be detected through normal hardware detection. The PRU+ will remain in blind dial mode until the PRU+ has been turned off or reset.

PID Basics

Features

The Personal Identification Device attaches to the participant's ankle or wrist. The PID transmits a radio frequency signal once every 15 seconds on rotating frequencies. The transmission is received by the Platinum Plus Receiver Unit (PRU+). The transmission contains a PID serial number, and four status messages. The PID serial number identifies the PID to the PRU+. The PRU+ expects to receive a specific identifying serial number from the PID in order to validate the transmission. The four status messages are strap sever, PID tamper, case open and low battery. The strap sever message indicates if the strap is completely broken. The PID tamper indicates if the strap has been tampered with in some manner or partially cut. The case open indicates that the PID's outer casing has been opened. The low battery message indicates if the battery installed in the PID is approaching the limits of its lifetime or if it is improperly installed.

Resetting the PID

The strap sever, PID tamper and case open alarms have the ability to remember if the alarms were ever activated. This will ensure that should the participant tamper with the PID while away from the area of confinement the alarm will be reported upon return. These parts of the PID circuitry need to be reset upon initial installation by using a LOCK. The  PID button on the LOCK is used to reset the alarms. Simply place the LOCK against the reset point (See Figure 2 : Resetting a PID) on the PID and press the  PID button once. The LOCK will emit a special signal (while the red light is on) and reset the circuitry. See Page 36 for more information regarding Special Function Mode use of a LOCK.

Figure 2 : Resetting a PID

