



Field Officers Guide to Use of the PID and FAU

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System Components

Personal Identification Device (PID)



Field Activator Unit (FAU)



Personal Identification Device (PID)

Also referred to as a 'transmitter' or 'cuff', this device is worn by a subject to register his or her presence within the boundaries of their place of curfew, or proximity to their Personal Tracking Unit (PTU) by means of a radio signal which can be detected by the PTU. The signal is transmitted periodically and contains the PID's status and ID number. The PID is water resistant to a depth of 5 metres.



FCC Compliance

WARNING: Changes or modifications to the transmitter not expressly approved by the manufacturer could void the user's authority to operate this RF device.

This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation

FCC ID: QYMPID601

PID Operation

The PID is worn constantly by the offender during the course of their sentence and, once activated, cannot be removed by the subject without triggering an alarm.

Periodically the PID transmits a radio signal detailing its status indicating whether it has been 'tampered' with, battery level and ID number. If the strap is removed a transmission is made immediately. These details are picked up by the PTU.

PID Clip Assembly

The PID is fitted in place using locking clips, which cannot be undone without leaving physical evidence and triggering the tamper alarm.

PID Clip Assembly

1. Component parts.



2. Press the strap on to the clip.



3. Fold the clip ensuring that the two halves lock together.



4. Push the clip into the PID until it locks with an audible click, ensure that it may not be removed.



Fitting the PID

1. Measure the circumference of the subject's ankle with the tape measure. The tape measure should be adjusted so that it is a comfortable fit but not too tight. Read the strap size from the printed chart on the side of the tape measure.



Measure circumference (PID)

2. Fit a clip to both ends of the strap as detailed on page 13, insert one clip into the PID, place the strap around the subject's ankle and insert the other clip until an audible click is heard. Ensure that the clip cannot be removed and that the PID is comfortable but not too loose.



Attaching a PID

Removing the PID

To remove the PID simply cut it off using the safety scissors in your toolbox. Do not cut too close to the clip as this will make it difficult to remove the clips from the PID body. Removal of the strap ends and clips should be performed out of sight of the subject if possible, using the Clip Removal Tool as described below.

In order to conserve battery life the PID should be turned off as soon as it is returned. Use the FAU to place the PID into dormant mode. The procedure is outlined in the FAU section.

Cleaning the PID

The PID will need to be cleaned once removed from the subject. To clean the equipment:

- Fill a sink with warm water and a small amount of LYSOL. DO NOT use any other type of cleaning agent. Items such as PINE SOL will disintegrate the plastic housing the PID.
- Disassemble the bracelet and throw away the strap and clips. Check to see if there is any damage to the PID. If so, clean the PID and send it to CMU for diagnostics.
- Use a toothbrush to scrub the PID paying particular attention to the sockets that the clips are inserted into.
- Rinse with warm water and dry. Store in a secure place.

Using the PID Clip Removal Tool

The following procedure details the use of the clip removal tool for the PID.

Note: beware of the two sharp pins, which protrude from the removal tool when the lever is pressed.

1. Thread the cut strap through the clip removal tool until the PID body fits into the recess on the tool.



PID Strap Insertion

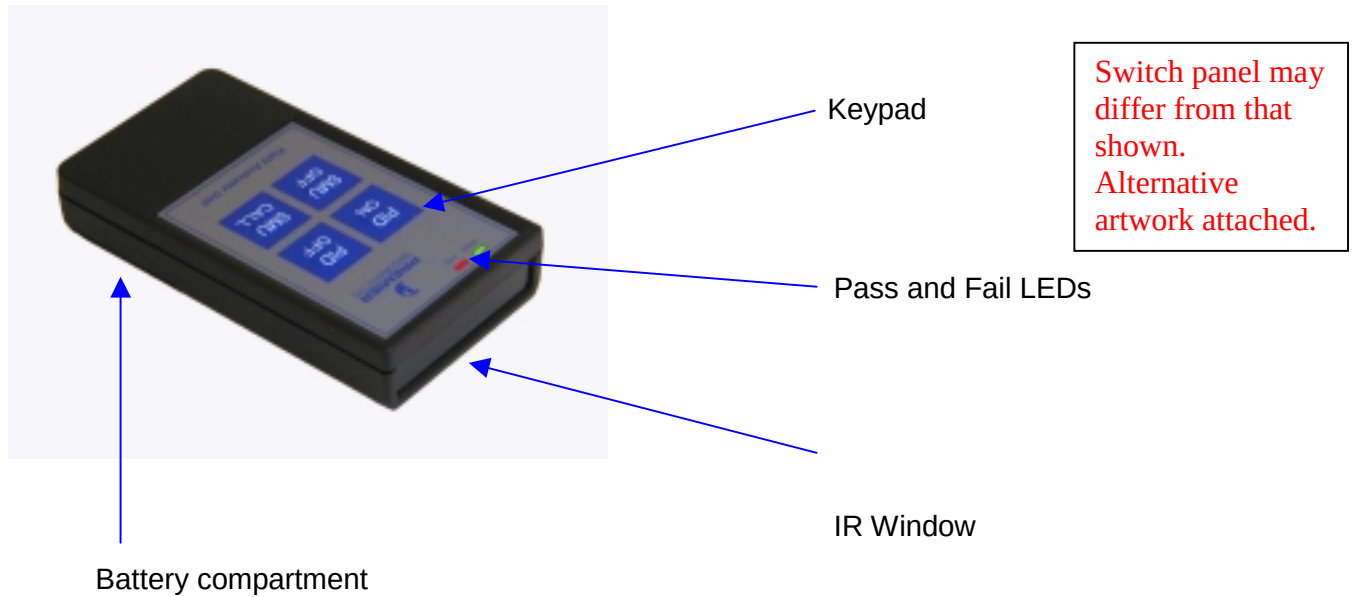
2. Hold the two firmly together and press down on the clip removal tool lever. The clip removal tool will grip the strap and release the lock on the clips.



PID Body Location

3. Pull the PID away from the tool, release the lever and pull the strap out of the clip removal tool.

Field Activator Unit (FAU)



FAU Functional Parts

The FAU is used to switch the PID on and off. It uses an infrared transmitter to send data to the PID and a radio receiver to receive data from the PID. When a PID is fitted to a subject using the strap and clips, the FAU can be used to switch the PID on and clear the status register of any previous breaches of strap integrity.

Switching on the FAU

To turn on the unit, press any key. This will cause the red LED to flash, which indicates that the 'password' should be entered from the keypad. The password consists of a sequence of key presses using the four keys on the top panel.

Enter the password by pressing the appropriate key sequence. If the password has been successfully entered the green LED will flash periodically until a key is pressed or the unit shuts down. If the red LED is still flashing carefully re-enter the password.

Switching off the FAU

If no key is pressed the unit will shut down automatically after five minutes. This is indicated by both the green and the red LEDs being off all the time.

Using the FAU to Put the PID Into Active Mode

When the PID has been fitted to a subject it is necessary to put it into its Active state so that it transmits its status to the PTU periodically. To do this, activate the FAU as described on the previous page. Align the FAU IR window with the PID IR window as shown below (the IR signal is emitted from the FAU just to the right of the centre of the IR window) and press the 'PID ON' button on the FAU once. The green LED will stop flashing periodically and both the red and the green LEDs will flicker intermittently as the FAU communicates with the PID. If the operation is successful the green LED will stay on continuously for three seconds before reverting to flashing periodically. If the operation fails, the FAU will attempt a further two times to communicate with the PID. If the operation still fails the red LED will stay on for three seconds before reverting to flashing the green LED periodically. If the operation fails, realign the FAU and the PID IR windows and try again. If after a number of attempts it is not possible to put the PID into Active mode it may mean that there is a fault with the PID or with the strap and these should be replaced.



Using the FAU with the PID

Using the FAU to Put the PID Into Dormant Mode.

When a PID has been removed from a subject it is necessary to put it into Dormant mode to conserve the PID battery. Activate the FAU. Align the FAU IR window with the PID IR window as shown previously (the IR is emitted from the FAU just to the right of the centre of the IR window) and press the 'PID OFF' button on the FAU once. The green LED will stop flashing periodically and both the red and the green LEDs will flicker intermittently as the FAU communicates with the PID. If the operation is successful, the green LED will stay on continuously for three seconds before reverting to flashing periodically. If the operation fails, the FAU will attempt a further two times to communicate with the PID. If the operation still fails the red LED will stay on for three seconds before reverting to flashing the green LED periodically. If the operation fails realign the FAU and the PID IR windows and try again.

Changing the FAU Battery

If the unit has been idle for 5 minutes or more wake the unit up by pressing any key. If the red LED fails to flash periodically replace the internal 9V battery. To replace the battery remove the screw securing the battery cover and lift the battery cover as shown below. Extract the battery from the battery compartment, unclip the battery connector, clip the connector to the replacement battery, place the battery back in the battery compartment and replace the lid ensuring that the clips at the bottom of the cover are properly located in the case. Screw down the battery cover.



Replacing the FAU battery

If the unit appears to be working correctly i.e. the LED's flash as expected but consistently fails to activate or deactivate a PID or does not operate the MU as required, disconnect the battery as above and leave the unit for 10 minutes. Reconnect the battery, replace the battery compartment lid and re-enter the password.

Alternative Switch Panel

