# PS25503
## imPulse Instruction Manual

Data Sheet 291980 issue 2

**Standard Components**

**PS25503**

- One PS25503 imPulse unit.
- Mini USB cable
- User guide

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PLESSEY SEMICONDUCTORS LTD | TAMERTON ROAD | ROBOROUGH | PLYMOUTH | DEVON | PL6 7BQ

Phone: +44 1752 693000 Fax: +44 1752 693200 Web: www.plesseysemi.com



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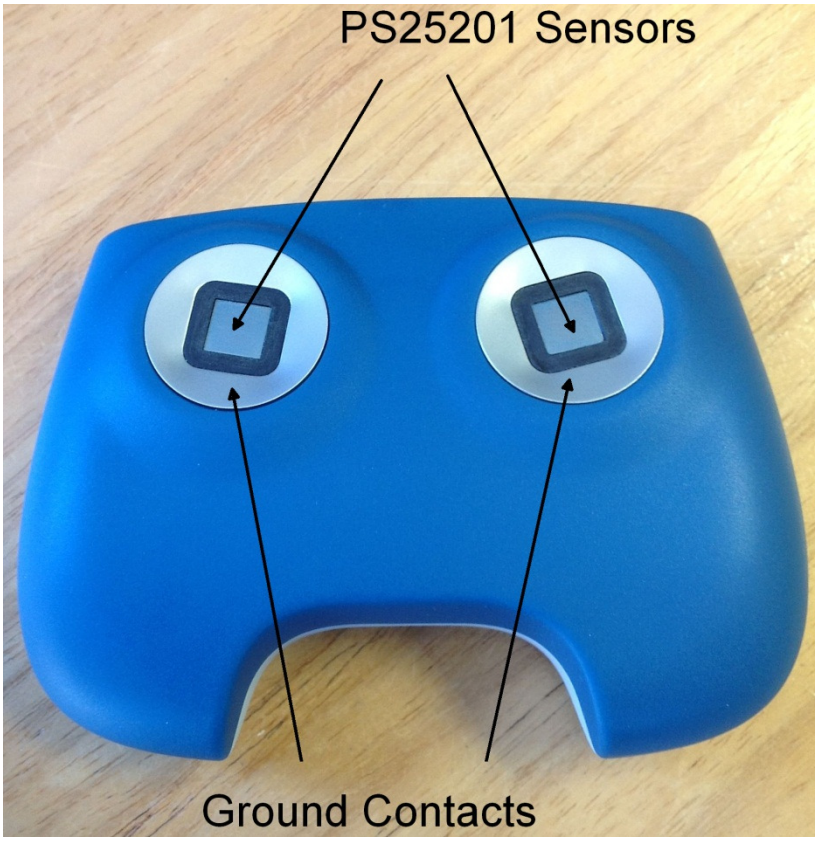
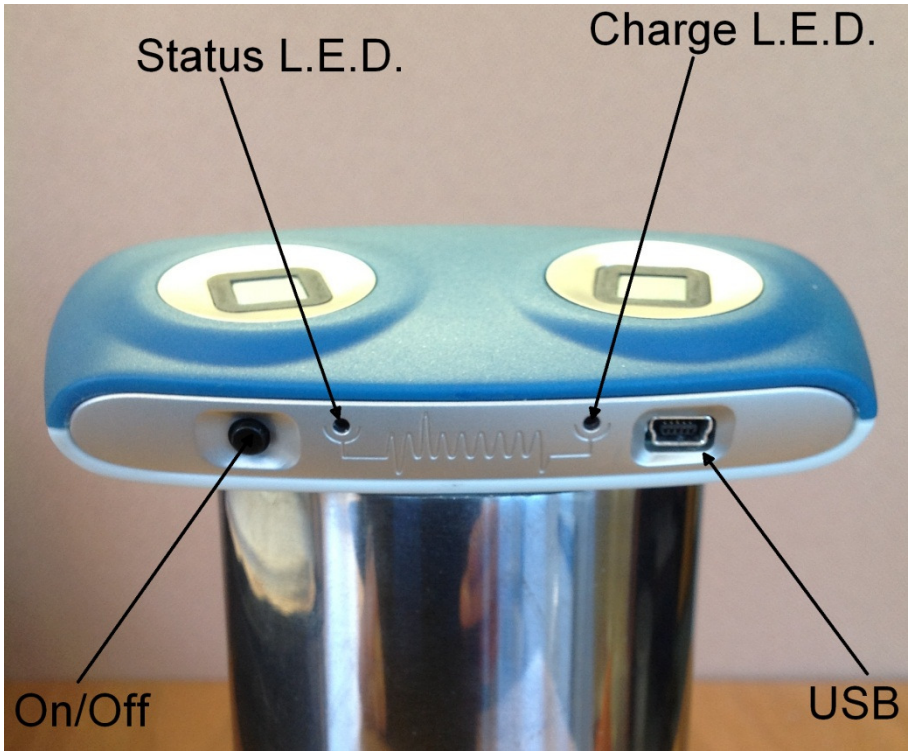
## 1.0 Introduction

The Plessey PS25503 imPulse unit is a hand held device capable of measuring a lead one (right arm minus left arm) ECG and transmitting the data via a Bluetooth link to an Android device. Custom software installed on the device can then display the ECG trace and perform some simple analysis (rate plus PVC detection). The device uses two Plessey PS25201 sensors to recover the ECG signals from the finger tips.

## 2.0 The imPulse Unit






## 3.0 Operation

The unit should be charged for a minimum of 8 Hrs before it is first used. This can be accomplished by connecting the USB port to either a USB wall charger or to a PC. When the unit is charging the red 'Charge' L.E.D. will be lit.

After the unit has been charged it may be switched on by pushing the on/off switch. This does not latch. It is pushed once to power on the device and then again to switch it off. When the unit is powered on then the status L.E.D. will be lit.

The unit can then be paired with a mobile 'phone or tablet running the Android operating system.

## 4.0 Installing the software and pairing the device.

The software installation package is a simple 'apk' file which Plessey will email to interested parties or provide on other media.

The Android 'phone must first be connected to a PC via a standard USB link.
The file 'EpicTrace.apk' should then be copied to the root directory of the 'phone. Once the file has been copied the USB cable should be removed between the 'phone and PC.

On most Android 'phones the application can be installed simply by finding it using the Android file explorer. Simply locate the file and click on it to install. In some cases it may be necessary to set the android device to allow it to install apps from unknown sources, or out of market applications.

Locate the Plessey EPIC Trace logo in the applications area of the 'phone (it looks like a Plessey logo) and select it.

When the software is running then press the 'menu' button.

Selecting the 'Connect a device' tab will allow you to pair the 'phone with the imPulse. The pass code is '12345'.

On some versions of the Android OS it may be necessary to do this from the 'phone's 'settings' panel.

After the 'phone has been paired it may be necessary to press the 'Connect a device' tab again and connect with the imPulse.

A white signal trace on the blue background should then be seen advancing from left to right.

## 5.0 Displaying an ECG trace.

The unit should be held lightly in both hands as shown below. The thumbs should rest upon the inner sensor plates and lightly touch the grounding rings as illustrated below.

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(b) that the imPulse is suitable for monitoring or diagnosing any physiological function, condition or illness;
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**Plessey Semiconductors Ltd. (Plymouth)**
**Tamerton Road | Roborough | Plymouth**
**Devon | United Kingdom | PL6 7BQ**

**Phone: +44 1752 693000**
**Fax: +44 1752 693200**
**E-Mail: info@plesseysemiconductors.com**

**Plessey Semiconductors Ltd.(Swindon)**
**Design & Technology Centre | Delta 500**
**Delta Business Park | Great Western Way**
**Swindon | United Kingdom | SN5 7XE**

**Phone: +44 1793 518000**
**Fax: +44 1793 518030**
**E-Mail: info@plesseysemiconductors.com**

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