

ImPulse PS25513G / PS25513B

Pre-Release Product Information



- Plessey's portable AF screening device will assist primary and secondary care staff in the detection of atrial fibrillation.
- A simple and effective device with two touch sensors and Bluetooth connectivity.



Intended use

The imPulse will assist qualified medical personnel in diagnosing Atrial Fibrillation (AF). The unit will be used as an AF screening device by the medical profession both in the primary care setting and at home.

Description

To use the imPulse the user simply places their thumbs on the two sensors allowing a lead one rhythm to be taken quickly and without the need to undress. Plessey's patented EPIC technology allows the trace to be collected without skin preparation or the use of sticky electrodes and conductive gel.

The software included with the imPulse allows the user or clinician to view, save and review the heart trace. A tablet is not included. Markers can also be used to measure peak timing between the PQRST complex. The portability of imPulse also makes it ideal for use where the user cannot get to a doctor. The trace can be saved and emailed to the doctor or cardiologist for viewing remotely.

Part ordering information	
PS25513G	imPulse Green
PS25513B	imPulse Blue

Mechanical	
Length	124mm
Width	90mm
Height	40mm
Weight	150g

Electrical	
Batteries	600mAh 3.6v LiFePo rechargeable (not replaceable)
Charge time	2.5 hours (max)
Continuous operation	6 hrs (typ)
Standby time	6 weeks
Charging	via charger connector with provided charger

Environment	
Operating Temperature	+5C to +40C
Operating Relative Humidity	15% to 90%
Operating Atmospheric pressure	70kPa to 106kPa
Transport and Storage Temperature	-25C to +70C
Transport and Storage Relative humidity	10% to 100%
Transport and Storage Atmospheric pressure	50kPa to 106kPa

Functional viewer with algorithm	
R to R time interval	+/- 10mS
AF detection sensitivity	TBC
AF detection specificity	TBC
Signal operation/ storage	on linked Windows PC/Laptop/smartphone/tablet

Regulatory
All relevant regulatory requirements will be complied with.

The product should not be used without reading the imPulse user guide.

Maintenance

The user should regularly clean the unit with an antiseptic wipe.

The user should charge the batteries regularly. The unit should not be left uncharged for long periods.

Service

The imPulse contains no user serviceable parts and should not be opened.

Warranty

The unit will have a one year warranty with respect to failures resulting from manufacturing faults and / or material defects.

Legal Notice

Product information provided by Plessey Semiconductors Limited (“Plessey”) in this document is believed to be correct and accurate. Plessey reserves the right to change/correct the specifications and other data or information relating to products without notice but Plessey accepts no liability for errors that may appear in this document, howsoever occurring, or liability arising from the use or application of any information or data provided herein. Neither the supply of such information, nor the purchase or use of products conveys any licence or permission under patent, copyright, trademark or other intellectual property right of Plessey or third parties.

Products sold by Plessey are subject to its standard Terms and Conditions of Sale that are available on request. No warranty is given that products do not infringe the intellectual property rights of third parties, and furthermore, the use of products in certain ways or in combination with Plessey, or non-Plessey furnished equipments/components may infringe intellectual property rights of Plessey.

The purpose of this document is to provide information only and it may not be used, applied or reproduced (in whole or in part) for any purpose nor be taken as a representation relating to the products in question. No warranty or guarantee express or implied is made concerning the capability, performance or suitability of any product, and information concerning possible applications or methods of use is provided for guidance only and not as a recommendation. The user is solely responsible for determining the performance and suitability of the product in any application and checking that any specification or data it seeks to rely on has not been superseded.

Products are intended for normal commercial applications. For applications requiring unusual environmental requirements, extended temperature range, or high reliability capability (e.g. military, or medical applications), special processing/testing/conditions of sale may be available on application to Plessey.

Contact

Customer Sales/ Enquiries
+44 1752 693000 | sales@plesseysemi.com | www.plesseysemi.com
Plessey Semiconductors Ltd | Plymouth
Tamerton Road, Roborough
Plymouth, Devon
PL6 7BQ, United Kingdom
F: +44 1752 693525