

PLS Puck

# User manual



Version 1.0  
Order No.: 4010064666

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# 1. GENERAL INFORMATION

## 1.1 Version history

Version	Date	Comment/Change	Author
0.1	July 2019	Draft/internal release	Dominik Spittler, Pyramid Computer GmbH
1.0	July 2019	Final release	Dominik Spittler, Pyramid Computer GmbH

## 1.2 Related documents

For further details please refer to the datasheet.

## 1.3 Introduction

PLS Puck, henceforth identified with the terms “product”, “device” or “beacon”, is a portable circular Bluetooth Low Energy (BLE) beacon for proximity, identification and RTLS applications. PLS Puck uses Quuppa™ Intelligent Locating System for accurate RTLS. PLS Puck is especially designed for automatic identification of people and assets. It is powered by 3 non-replaceable 3V lithium battery, mod. CR2477. Before you start using PLS Puck, verify that it is undamaged and carefully read the instructions in this user manual, particularly the indications in the safety section.

Only qualified staff may operate the product/system outlined in this documentation and only if observing the documentation for the relevant task, specifically the safety and warning notices included therein. Due to their training, qualified staff are able to recognize risks when handling these products/systems and avoid possible hazards.

## 1.4 Intended use of Pyramid products

### **Please observe the following:**

Pyramid products may only be used for intended uses outlined in the associated technical documentation. If third party products and components are used, then they have to be recommended and approved by Pyramid.

Perfect and safe operation of the products requires professional transport, appropriate storage, set-up, assembly, installation, commissioning, operation and maintenance. The permissible ambient conditions have to be adhered to. Please observe the information in the relevant documentations.

## 1.5 Exclusion of liability

We checked the content of the publication for accordance with the described hardware/software.

However, we cannot exclude deviations which means that we cannot accept liability for full compliance.

Pyramid Computer GmbH disclaims any and all liability if the devices are used in modes and environments incompatible for keeping the product’s intact, safe and in operation.

## 1.6 Purpose and scope of this documentation

This compact information includes directions and information which are necessary for commissioning and using the device. This documentation is valid for all available versions of the device and describes the delivery condition as of July 2019.

## 2. SAFETY

### 2.1 Style conventions for warnings

This manual includes information which you have to observe for your own personal safety as well as to prevent property damage. Information for your own personal safety are highlighted with a warning triangle; information which concerns property damage does not have a warning triangle. Depending on the risk level, the warning notices are displayed in decreasing order.

 **DANGER**

Means that death or severe physical injury will occur if the relevant safety measures are not taken.

 **WARNING**

Means that death or severe physical injury may occur if the relevant safety measures are not taken.

 **CAUTION**

With warning triangle, it means that light physical injury may occur if the relevant safety measures are not taken.

**NOTICE**

Without warning triangle, it means that property damage may occur if the relevant safety measures are not taken.

 Advice or additional information.

When several risk levels occur at the same time, then the warning notice for the relevant highest level is used. If a warning notice with a warning triangle warns against personal damages, then the same warning notice can also include a warning against property damage.

## 2.2 General safety instructions

The beacon is a wireless device. The beacon must be intended for use for which it was designed. Any other use is considered improper and therefore dangerous. Before you start using the beacon, verify that it is undamaged.

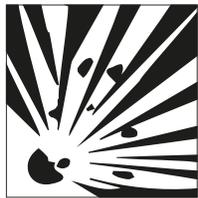
- DO NOT use the beacon in potentially explosive atmospheres.  
The presence of flammable gas or fumes is a serious safety hazard.

## 2.3 Battery

PLS Puck is powered by three internal non-replaceable batteries, according to the following table:

Quantity	Common name	IEC60086 name	Type	Nominal voltage
3	CR2477	CR2477	Lithium (LiMnO <sub>2</sub> )	3 V

### DANGER



Risk of explosion.

- Ensure that the battery is always replaced with an equivalent type.
- Do not throw batteries into fire.
- Do not short circuit batteries.

It is recommended to observe the following precautions:

- DO NOT disassemble, cut, or damage the device: battery could be damaged and can be dangerous.
- DO NOT disassemble, puncture or damage the device or the internal battery.
- DO NOT recharge the batteries.
- DO NOT short the positive and negative contacts of the batteries.
- DO NOT cause a forced depletion of the batteries.
- DO NOT throw the device or the battery in fire.
- DO NOT place the device or the battery in the following environmental conditions: in the vicinity of heat sources, exposed to direct sunlight, high temperatures, high humidity, in contact with water.
- DO NOT put the device or the battery in your mouth. If the battery (or the liquid contained in it) is ingested, immediately contact a doctor. The ingested battery must be immediately removed. Swallowing the battery or the liquid contained in it cause irreversible damage to the digestive system, within two hours, including possible death.
- The disassembled, perforated or damaged battery can lose its contents:
  - If battery contents come into contact with eyes, rinse immediately with plenty of water for at least 30 minutes. Contact a physician immediately.
  - If battery contents come into contact with skin, rinse immediately with plenty of water for at least 15 minutes. If irritation or pain persists, contact a physician.
  - The content of the battery can cause respiratory irritation. Exit to fresh air immediately. If irritation persists, contact a physician.
- Keep, under any circumstances, the battery away from children.

### 3. DISPOSING OF THE DEVICE



Do not dispose of the device with the household refuse.  
Electrical devices and components must always be disposed of separately.



Ensure that normal batteries and storage batteries are disposed of in accordance with the statutory regulations in force.



**WEEE-Reg.N° DE 59162004**

To dispose of a system which is no longer required or faulty, contact the manufacturer.  
He can advise you about how the components have to be separated in accordance with environmental regulations and which materials can be recycled.

In implementing the Directives 2011/65/EU and 2012/19/EC on the restriction of the use of hazardous substances in electrical and electronic equipment and the disposal of waste.

The crossed bin symbol on the product, on the attached manual or on its packaging indicates that at the end of the product's life, it must be collected separately from other waste. The user must, therefore, take the remote control to an authorized disposal center for collection of electronic and electrical waste, or return it to the dealer when purchasing a new similar appliance, on a one to one basis. Appropriate separate collection for the subsequent forwarding of the product sent for recycling, treatment and environmentally compatible disposal helps to prevent negative environmental and health effects and promotes the reuse and/or recycling of materials making up the equipment. Illegal dumping of the product by the user entails the application of administrative sanctions in the current provisions of law. For more information about the collection systems, contact your local authorities.

In implementing Directive 2006/66/EC on the reduced use of hazardous substances in batteries and the disposal of the same.

The crossed bin symbol on the product, on the attached manual or on its packaging indicates that the batteries must not be disposed of with the rest of the household waste, as they may contain substances that are potentially harmful to the environment and health. Remove the old battery from the device and turn it in at the appropriate collection points.

## 4. CONFORMITY



### **US (FCC)**

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.

Changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC ID: 2AT5MPLS-V6



### **EU (ETSI)**

Hereby, Pyramid Computer GmbH declares that PLS Puck is in compliance with Directives 2014/53/UE (RED) and 2011/65/UE (RoHS 2).



Serial number