Installation and Operation Manual
for Perenio® Power Link Devices

April, 2020
Introduction

The Power Link device is designed to monitor voltage, current and power of plugged in electrical equipment and provides for timely notification of overloads and other events. This device is used as part of the Perenio Smart Building Management System upon detection by the Perenio® Control Gateway or IoT Router and can also be controlled via intelligent voice assistants.

The present Manual contains a detailed description of the power plug, as well as instructions for its installation and operation.

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Responsibility and Technical Support

The present document is prepared in accordance with all necessary requirements and contains detailed information on the device installation, configuration and control valid as of the date of its issue.

*Perenio IoT* reserves the right to modify the device and make corrections or changes to this document without prior notice of the User, and shall not be responsible for any potential negative consequences which may arise from the use of an outdated version of the document, as well as for any possible technical and/or typographical errors, either omitted or accidental, or any related damage that may result from the document transfer or the use of devices.

*Perenio IoT* shall make no guarantee with respect to any data contained herein including but not limited to the device merchantability and fitness for a particular purpose.

For any technical issues, please contact your local *Perenio IoT* representative or the Tech Support Department at [perenio.com](http://perenio.com).

The most common problems may be found in Section 7 of the present document and at [perenio.com](http://perenio.com) where you can also download the latest version of this Installation and Operation Manual.

Manufacturer:
*Perenio IoT spol s r.o.*
Na Dlouhem 79, Ricany – Jazlovice 251 01, Czech Republic
[perenio.com](http://perenio.com)
Conformance to Standards

The device is CE certified and complies with requirements of the following Directives of the European Union:

- 2014/53/EU Radio Equipment Directive (RED);
- 2014/35/EU Low Voltage Directive;

The device has passed all procedures of assessments established in Technical Regulations of the Customs Union and conforms with standards of the Customs Union.

The device complies with the requirements of Restriction of the Use of Certain Hazardous Substances in Electronic and Electrical Equipment (2011/65/EU Directive)

The device complies with requirements of the Technical Regulations of the Republic of Belarus TR 2018/024/BY (Telecommunications. Security)

The national conformity mark of the Ukraine indicating that the device meets requirements of all applicable technical regulations

The device and supplied batteries must not be disposed of as a household waste in accordance with the Waste Electrical and Electronic Equipment Directive (2002/96/EC)

For the purpose of protection of the environment and human health, both the device and batteries must be disposed of in accordance with approved instructions on safe disposal. For more information on proper disposal, please contact your device supplier or local authorities responsible for waste management.

Details on available Certificates are specified in Section 6 of the present document. For copies of Certificates and Reports, please visit a corresponding Section at perenio.com.
# Table of Contents

Introduction .................................................................................................................. 3
Copyrights .................................................................................................................... 3
Responsibility and Technical Support ......................................................................... 4
Conformance to Standards .......................................................................................... 5
Table of Contents .......................................................................................................... 6

1 General Description and Specifications ...................................................................... 8
   1.1 General Purpose ................................................................................................. 8
   1.2 Technical Specification ...................................................................................... 11
   1.3 Scope of Delivery .............................................................................................. 12
   1.4 Packaging and Labelling .................................................................................. 13
   1.5 Safe Operation Rules ....................................................................................... 13
   1.6 Standalone Operation of Perenio® Devices ....................................................... 14

2 Installation and Setup ............................................................................................... 15
   2.1 Initial Installation and Configuration ................................................................. 16
      2.1.1 Powering On the Device ............................................................................ 16
      2.1.2 Selection of the Connection Method ....................................................... 16
      2.1.3 Activation in the Perenio Smart Mobile Application ............................... 16
      2.1.4 Additional Settings .................................................................................... 20
      2.1.5 Activation in Apple HomeKit .................................................................... 20
      2.1.6 Management Through Google Home, Yandex Smart Home and Amazon Alexa ......................................................................................................................... 20
      2.1.7 LED Indication of Loads and Overload Protection ................................... 21
   2.2 Changing the Room or Location for the Power Plug .......................................... 21
   2.3 History and Push-Notifications ......................................................................... 22

3 Maintenance and Repair ........................................................................................... 24
4 Warranty Obligations ................................................................................................. 25
5 Storage, Transportation and Disposal of Devices ..................................................... 28
6 Other Information ..................................................................................................... 29
7 Troubleshooting ........................................................................................................ 31
Figures and Tables

Figure 1 - Exterior ................................................................. 8
Figure 2 – Buttons, Ports and Indicators ........................................ 9
Figure 3 - Scope of Supply ........................................................... 12
Figure 4 - Examples of Installation ............................................ 15
Figure 5 – Add new device (Power Plug) procedure ....................... 19
Table 1 – LED Indicator statuses .................................................. 9
Table 2 – Basic Technical Specifications ...................................... 11
Table 3 – Permissible power limits .............................................. 21
Table 4 – Typical Errors and Troubleshooting Methods .................. 31

Connection to the Perenio Smart Mobile App

A. LOGIN TO THE EXISTING USER ACCOUNT ......................... 17
B. CONNECTION TO THE CONTROL GATEWAY ........................... 17
1 General Description and Specifications

1.1 General Purpose

The Perenio® Power Link device is designed to monitor, control and automatically cut off power consumption by electrical equipment, as well as notify users of overloads.

This power plug is equipped with an autonomous timer that saves User settings even in case of power failures, as well as with protective shutters that prevent foreign objects from entering the device openings and in such a way protect children from the electric shock.

The Power Link device has a number of distinctive features, namely:

- Support for ZigBee 3.0 and Bluetooth (MFi);
- Integration with Apple HomeKit (Siri), Google Home (Google Assistant), Yandex Smart Home (Alice) and Amazon Alexa;
- iOS (10.1 and higher) and Android (5.1 and higher) smartphone compatibility;
- Connection distance of up to 100 meters from Perenio® Control Gateway or IoT Router;
- Low power consumption of not more than 0.5W;
- Peak power of 4,000W;
- Overload and thermal protection;
- Autonomous timer;
- Voltage, current and power control;
- IP20 Protection Class;
- Plug type E/F, socket type F;
- LED indication of current load;
- Management through a free mobile application;
- Cloud service support.

Figure 1 - Exterior
Buttons, Ports and Indicators

**Protective Shutters**
Special plastic covers for the power plug openings that prevent foreign objects from entering therein, which protects children from the electric shock.

**Power & Reset Button**
It is used to power on and off the device, as well as to switch to different operating modes, and connect to the Perenio Smart Mobile App via the Control Gateway/IoT Router.

**LED Indicator**
Light ring around the button perimeter where color changes depending on the power consumption level and various states of the device (See Table 1).

**Socket Type F**
Compatibility with plug type E/F

**Plug Type E/F**
Compatibility with socket type F

Table 1 – LED Indicator statuses

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Status</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Violet</td>
<td>Blinks</td>
<td>The device is switched on* and in the process of activation in the Perenio Smart app</td>
</tr>
<tr>
<td>Green</td>
<td>Flashes</td>
<td>The device is switched on* and activated in the Perenio Smart app or Apple HomeKit app</td>
</tr>
<tr>
<td>Indicator</td>
<td>Status</td>
<td>Description</td>
</tr>
<tr>
<td>-------------------------</td>
<td>----------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Blinks</td>
<td></td>
<td>The device is switched on*, but not activated in the Perenio Smart app or Apple HomeKit app</td>
</tr>
<tr>
<td>Dark-blue Flashes</td>
<td></td>
<td>The device is switched off**, but activated in the Perenio Smart app</td>
</tr>
<tr>
<td>Blinks</td>
<td></td>
<td>The device is switched off** and not activated in the Perenio Smart app or Apple HomeKit app</td>
</tr>
<tr>
<td>Pale-blue Flashes</td>
<td></td>
<td>The device is switched off**, but activated in the Apple HomeKit app</td>
</tr>
<tr>
<td>Red Blinks</td>
<td></td>
<td>An error occurred, or overload protection was activated :</td>
</tr>
<tr>
<td>Green-yellow-red Flashes</td>
<td></td>
<td>The device is activated in the Perenio Smart app and consumes energy. The color changes smoothly depending on the current strength – from 0A (Green) to 16A (Red)</td>
</tr>
<tr>
<td>Blinks</td>
<td></td>
<td>The device is activated in the Apple HomeKit app and consumes energy. The color changes smoothly depending on the current strength – from 0A (Green) to 16A (Red)</td>
</tr>
</tbody>
</table>

* “The device is switched on” means that the power plug is connected to the source of power and supplies energy to an appliance plugged into it.

** “The device is switched off” means that the power plug is connected to the source of power, but does not supply energy to an appliance plugged into it.

*** If your device is activated in the Perenio Smart app, it won’t be able to be connected via Bluetooth in Apple HomeKit until you switch to the MFi mode.

**ATTENTION!** All Products and the Mobile Application of the Company (including any future software and hardware whether in-house or third-party developed) are not intended for emergency responses and cannot be used as fire-extinguishing equipment and/or for emergency intervention, including but not limited to fires, flooding, gas leaks or explosions, burglary and theft, as well as natural disasters and other force majeure circumstances leading to damage and/or losses incurred by the Client or caused to their estates, personal property and/or other products, devices, personal data and privacy.
1.2 Technical Specification

Table 2 – Basic Technical Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Article</td>
<td>PEHPL01/PEHPL03 (white color) PEHPL02/PEHPL04 (black color)</td>
</tr>
<tr>
<td>Communication Technology</td>
<td>ZigBee 3.0 (IEEE 802.15.4), Bluetooth (MFi)</td>
</tr>
<tr>
<td>Compatibility</td>
<td>Android (5.1 and higher) and iOS (10.1 and higher)</td>
</tr>
<tr>
<td>Integration</td>
<td>Apple HomeKit, Google Home, Yandex Smart Home, Amazon Alexa</td>
</tr>
<tr>
<td>MCU</td>
<td>NRF52840</td>
</tr>
<tr>
<td>ZigBee Coverage</td>
<td>Up to 100 meters (open space)</td>
</tr>
<tr>
<td>ZigBee Antenna</td>
<td>Type: Built-in Transmitting Power: 8dBm Receiver Sensitivity: -95dBm Antenna Gain: -2dBi</td>
</tr>
<tr>
<td>Repeater Function</td>
<td>Yes</td>
</tr>
<tr>
<td>Operating Frequency</td>
<td>2,400MHz to 2,485MHz</td>
</tr>
<tr>
<td>Server</td>
<td>Remote</td>
</tr>
<tr>
<td>Power</td>
<td>Input voltage: AC 180V to 250V Max current: 16A Frequency: 50Hz to 60Hz Operating power: 3,500W Peak power: 4,000W Power consumption: 0.5W max</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>0°C to +40°C</td>
</tr>
<tr>
<td>Operating Humidity</td>
<td>Up to 75% RH (non-condensing)</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>0°C to +50°C</td>
</tr>
<tr>
<td>Storage Humidity</td>
<td>Up to 85% RH</td>
</tr>
<tr>
<td>Степень защиты</td>
<td>IP20</td>
</tr>
</tbody>
</table>
### Parameter | Value
--- | ---
Timer | Autonomous
RTC Module | Built-in
Installation | Directly into the mains socket. For indoor installation only.
Casing Material | PC945, Class UL94-V0
Color | White or black
Dimensions (L x W x H) | 54 mm x 76 mm x 54 mm
Weight | 100 g
Warranty Period | 2 years
Service Life | 4 years
Certification | CE, EAC, RoHS, UA.TR
Data Protection | GDPR Compliance

### 1.3 Scope of Delivery

The following items and accessories are supplied within the **Perenio® Power Link** package:

1. Power Link device (1 шт.)
2. Quick Start Guide (1 pc.)
3. Warranty Card (1 pc.)
4. Sticker (1 pc.)

![Figure 3 - Scope of Supply*](image)
1.4 Packaging and Labelling

The Perenio® Power Link device is supplied in a carton Gift Box of 104 x 104 x 64 mm (L x W x H) containing the full name and marking of the device, the list of accessories provided and basic technical specifications thereof, as well as the date of manufacture and information about the manufacturing plant of devices.

Weights of the package are as follows:

- Net weight: 100 g;
- Gross weight: 185 g.

1.5 Safe Operation Rules

For the proper and safe operation of Perenio® power plugs, follow the instructions and safety procedures described in the present Manual. The Manufacturer shall not be liable for any damage caused as a result of improper operation of devices.

Safe Operation Conditions

1. The device shall be installed indoors only.
2. Do not plug the device into other smart plugs in the mains.
3. Users shall observe storage/transportation conditions, as well as the operating temperature mode of the device as declared by the Manufacturer. Do not use the device in rooms with high humidity or extreme temperature variations.
4. When installing the device, Users shall provide for a gap of at least 10 cm wide on each side of the device to ensure its adequate ventilation at the place of installation (Do not cover the device with newspaper, tablecloth, curtains, etc.)
5. The device may be plugged into the power source, only if the mains voltage matches the value indicated on the device casing and/or specifications.
6. Do not immerse the device in water or other liquids due to the risk of fire and/or electric shock.
7. Keep the device away from open flame sources and hot surfaces.
8. Users must not drop, throw or bend the device or attempt to repair the device on their own.
9. In order to avoid personal injury, it shall not be allowed to use the cracked or in any other way damaged device.
10. Use dry cloth or cloth soaked in a small amount of water for cleaning (don’t use harsh chemicals/cleaning agents). The device must be powered off before cleaning.

11. Children shall not be allowed to use the device unsupervised and/or play with it.

12. It is not recommended to use the device by persons with physical or mental disabilities, unless they are under proper supervision or were properly instructed on possible hazards and safe usage of the device.

**ATTENTION!** Faulty wiring and excessive mains voltage can cause electric shock. There is a danger of burns because the device becomes hot during operation! Let the device cool down completely.

### 1.6 Standalone Operation of Perenio® Devices

The Control Gateway/IoT Router in not necessarily required for all Perenio® devices in order to alert Users on potentially dangerous situations.

Thus, due to integration with Apple HomeKit the Power Plug can be used autonomously.

**NOTE** that if it is required to manage the device via Google Home, Yandex Smart Home (Alice) or Amazon Alexa, its preliminary activation in the Perenio Smart application is required.
2 Installation and Setup

Installation of the Perenio® Power Link device is not required, since it shall be just plugged into the electrical socket to start operation.

**NOTE.** It is not recommended to install the device in areas with a high level of noise and a high-frequency interference. Reinforced concrete floors may reduce the distance of wireless signal transmission.

![Installation Examples](image)

**Figure 4 - Examples of Installation***

*Images of accessories are provided for informational purposes only*

The entire process of setting-up the device can be divided into several key stages:

- Insert the Power Link device to the source of power (mains socket);
- Activate the device via the Perenio Smart Mobile App or Apple HomeKit;
- Activate the device in Google Home, and/or Yandex Smart Home, and/or Amazon Alexa, if required (This option is possible only after activation of the device via the Perenio Smart Mobile App).

**NOTE.** The Perenio Smart: Building Management System Mobile App Manual document is available for downloading at the web-site.
2.1 Initial Installation and Configuration

2.1.1 Powering On the Device
To power on the device, it is enough to unpack it, plug into the electrical socket and press the Power Button so that the LED Indicator lights up (or blinks slowly) green.

2.1.2 Selection of the Connection Method
There are two modes when activating the Power Plug in the Mobile Application:

- ZigBee Mode that is used for activation in the Perenio Smart App through the Control Gateway or the IoT Router, including further activation of this device in Google Home and/or Yandex Smart Home applications;
- Bluetooth (MFi) Mode that is used for activation in Apple HomeKit without the Perenio® Control Gateway or the IoT Router.

When you first switch on the Power Link device, or did not activate it in the Perenio Smart App through the Control Gateway or the IoT Router, the default mode will be the Bluetooth (MFi) Mode.

However, after it is activated in the Perenio Smart App through the Control Gateway or the IoT Router, the Power Link device will automatically switch to the ZigBee Mode and will not be available for connection in the Apple HomeKit application.

The device may be switched from ZigBee Mode to Bluetooth (MFi) Mode in one of the following ways:

1. Find the Power Plug in the Devices tab, click on the Settings icon ( ), and select “Disconnect device” to remove it from the Perenio Smart App.
2. Press and hold the Power Button until the LED indicator starts flashing violet. Release the button and wait for the indicator to flash blue.

2.1.3 Activation in the Perenio Smart Mobile Application
To connect the Power Link device through the Control Gateway or the IoT Router, the User shall perform the following steps:

1. Unpack the device and plug it into the source of power (See par. 2.1.1).
2. Login in to the Perenio Smart Building Management System User Account (See par. A below).
3. Activate the device in the application (See par. B below).
4. Enter the desired Power Plug name and select the Room of installation.

A. LOGIN TO THE EXISTING USER ACCOUNT

a. Enter your e-mail address and password in the login screen;
b. Click on the LOG IN button.

NOTE. If the password was lost, the User can restore it by clicking on a corresponding link on the screen.
To restore a forgotten password, use the e-mail address linked to your User Account, to which instructions on changing the password will be sent.

B. CONNECTION TO THE CONTROL GATEWAY
a. Click on the “+” icon in the upper right corner of the Devices tab, select “Add new device” and then the “Power Plug” device in the list;

b. Select the Control Gateway/IoT Router to which the Power Plug shall be connected (This screen will be displayed, only if there are several Control Gateways activated in the User Account);

**NOTE.** The Control Gateway/IoT Router must be connected to the mains and the Internet, as well as activated in the Perenio Smart App.

c. Start searching for devices;

d. Press and hold the reset button until the LED Indicator starts blinking violet;

**NOTE.** Several sensors and other ZigBee devices may be connected to the Control Gateway/IoT Router at once.

e. After successful connection, enter the Sensor’s name and select the Room.

### B.1. CONNECTION ERRORS

The connection failure of the device may occur due to one of the following reasons:

a. The device is switched off or at a too long distance from the Control Gateway (4.5 meters);

b. The Control Gateway is offline;

c. The LED Indicator was blinking before start of the sensor connection (You should remove the sensor battery and insert it back into the casing).

**NOTE.** To eliminate connection failures, follow instructions specified on corresponding screens of the smartphone.

The entire process of the Power Link connection in the Mobile App is shown below.
Figure 5 — Add new device (Power Plug) procedure
2.1.4 Additional Settings

After activation of the Power Plug in the Perenio Smart application, the User can also set power and voltage limits and select the default state in the device control panel:

- **Power range**: When set, power supply to the device will be automatically blocked in the case when minimum or maximum power levels are exceeded;
- **Voltage range**: When set, power supply to the device will be automatically blocked in the case when minimum or maximum voltage levels are exceeded;
- **Default state**: When set, the device will be automatically switched to the last state, on or off state every time after being restarted, unlocked or plugged into the source of power.

2.1.5 Activation in Apple HomeKit

To manage the device in Home application (Apple HomeKit), the User shall switch it to the Bluetooth Mode (See par. 2.1.2 above) and add it as an accessory by scanning the QR Code contained on the back cover of the Quick Start Guide.

**NOTE.** When connecting, the User shall follow instructions in the Apple application.

2.1.6 Management Through Google Home, Yandex Smart Home and Amazon Alexa

To control an intelligent outlet via the Google Home application, Yandex Smart Home or Amazon Alexa, it must be previously activated in the Perenio Smart application (see clause 2.1.3 above).
NOTE. When activating the Power Link in Google Home, Yandex Smart Home or Amazon Alexa, the User shall follow instructions specified in corresponding Google and Yandex applications.

### 2.1.7 LED Indication of Loads and Overload Protection

The Power Link device may operate under power of up to 4,000 Watts. Changes in the power level will be displayed in the mobile application, as well as indicated by different colors of the Power Button LED.

Table below contains power levels and description thereof.

**Table 3 – Permissible power limits**

<table>
<thead>
<tr>
<th>Power Range</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0W</td>
<td>No power, or the device is offline</td>
</tr>
<tr>
<td>1W to 1,000W</td>
<td>Low power level</td>
</tr>
<tr>
<td>1,001W to 3,000W</td>
<td>Medium power level</td>
</tr>
<tr>
<td>3,001W to 4,000W</td>
<td>High power level</td>
</tr>
<tr>
<td>Above 4,000W</td>
<td>Overpower protection triggering</td>
</tr>
</tbody>
</table>

The Power Link device is equipped with overvoltage and overpower protection, as well as protection from overheating. When this protection is activated, the LED Indicator of the Power Button starts blinking red.

When the cause of protection activation is eliminated, the device will return to normal operation, and the indicator will stop blinking.

Also, the User can exit the overload protection mode manually. To do this, press and hold the Power Button for at least ten seconds.

### 2.2 Changing the Room or Location for the Power Plug

When using the Power Link device, it may be necessary to change its installation area. The following options are possible:

1. **Change the room/location** (The CG remains the same) as follows:
a. Disconnect the Power Link device from the source of power and move it to another room;
b. Plug it into the source of power;
c. Change the Room in power Plug settings in the User Account.

2. Change the room/location (Connection to another CG is required) as follows:
   a. Sign in to the Perenio Smart app and select the Location where the Power Link device is activated;
   b. In the Devices tab, select the required Power Link device from the list and click on the icon (Settings);
   c. In the pop-up window, choose "Disconnect device";
   d. Disconnect the Power Link device from the source of power and move it to another location/room;
   e. Plug it into the source of power in a new room;
   f. In the User Account, select the Location where you want to move the device;
   g. Initiate the Power Link search by the Control Gateway through the Perenio Smart application according to par. B. “Connection to the Control Gateway”.

**NOTE.** The User can manually disconnect the Power Link device from the Control Gateway. To do this, press and hold the Reset button on the Power Link device until the LED flashes (It usually takes no more than 5 seconds).

**NOTE.** To check that the Power Link device was successfully disconnected, you should update the list in the Devices tab (Pull the screen down until the progress icon appears and the data is updated). If the Power Link device is disconnected, it will disappear from the list of connected devices.

### 2.3 History and Push-Notifications

All notifications and other messages including changes in Perenio® device statuses are displayed in the History tab. At the same time, the most important events are shown online in the notification window () in the User Account. Available types of notifications are as follows:
• Alarms (These are always received like push-notifications on a smartphone, as well as recorded in the notification window and in the History tab in the Mobile Application);
• Important messages (These are recorded in the notification window in the Armed Mode, as well as always recorded in the History tab);
• Standard events (These are recorded in the History tab only).

**Alarms.** The most important messages such as device actuation notifications when in the Armed mode, including all alarms from both the Smoke Sensor and the Leak Sensor (even if in the Disarmed mode), as well as changes in the Control Gateway Online/Offline status.

**Important messages.** Notifications of the start and completion of the Control Gateway firmware update process, as well as low battery notifications and changes of the Armed/Disarmed mode for the Location.

**Standard events.** Various news and other information from Perenio IoT, as well as alerts from both the Door&Window Sensor and the Motion Sensor when in the Disarmed mode.
3 Maintenance and Repair

The Perenio® Power Link device does not require special maintenance in the normal course of operation. However, in order to maintain the proper state and stable operation of the device it is recommended to perform the following actions from time to time:

- Follow rules of safe operation of the device;
- Clean the device casing from dirt and dust at least once every six months;
- Check for updates of the Perenio Smart app;
- Repair mechanical damages to devices (in Service Centers).

The Perenio® Power Link device repairs shall be carried out in Service Centers, because casings will have to be opened in the case of any element failure.

In the case of warranty repairs or replacement, the User shall provide the Seller with the sales receipt and the purchased device.

For details on the replacement and repairs of the Perenio® Power Link device, please contact your local Company representative or the Tech Support Department at perenio.com.
4 Warranty Obligations

The warranty period for the Perenio® Power Link device shall be Twenty-Four (24) months from the date of sale to the End User.

The Warranty Card shall be deemed valid provided that it is correctly and completely filled in by the Seller. Upon the purchase, the Customer shall check that both the Serial Number and the Model name of the device correspond to those indicated in the Warranty Card.

Incomplete or illegible Warranty Card shall be deemed not valid. In this case, it is recommended to contact the Seller and ask for a duly filled in Warranty Card. It shall be also allowed to provide the original of the sales/cashier’s receipt or such other documentary evidence of the fact and the date of sale of the device. The date of sale shall be the date indicated on the sales/cashier’s receipt or other relevant document. If the date of sale is not possible to be determined, the start of the warranty period shall be the date of manufacture of the device.

The Manufacturer shall guarantee that all materials, components and assemblies of Perenio® devices are free from defects under normal operation within the warranty period. The limited warranty shall be applied to the first End Customer of Perenio® devices only and cannot be transferred to a subsequent customer.

For warranty replacement, the device must be returned to the Seller along with its receipt. Warranty obligations for Perenio® devices shall be provided in the country of their purchase only.

WARRANTY SERVICE PROCEDURE

In the case of any alleged defect or deficiency of the device detected, the Customer shall contact the Authorized Service Center before the warranty period expiration and provide the following:

1. The device with an alleged defect or deficiency.
2. The Warranty Card filled out in accordance with the applicable legal requirements, or the original of the document confirming the purchase of the device, including clear indication of the name and the address of the Seller, as well as the date when this device was sold.

LIMITATION OF LIABILITY

Perenio® devices SHALL NOT BE SUBJECT TO a free warranty service in the case of identification of at least one of the following damages or defects:
• Any damage caused by force majeure, accidents, and willful or careless acts (omissions) of the Customer or third parties;
• Any damage caused by the impact of other objects including but not limited to exposure to moisture, dampness, extreme temperatures or environmental conditions (or jumps in such conditions), corrosion and oxidation, as well as penetration of food or liquid, and the effects of chemicals, animals, insects and byproducts thereof;
• In the event when the device (accessories and/or components) was unsealed (the seal integrity was violated), modified or repaired by any party other than the Authorized Service Center, including repair works using unauthorized spare parts;
• Any defects or damage caused by improper or unintended use of the device, including operation contrary to available manuals;
• Any defects caused by attempts to connect to incompatible software;
• Any defects caused by natural wear and tear of Products, including bags, casings, batteries or Installation and Operation Manuals;
• In the event when the Serial Number (Name Plates), the date of manufacture or the Model name on the device casing was in any way removed, erased, affected, altered or made illegible;
• In the case of violation of operating procedures and conditions, as well as the device installation instructions described in relevant Manuals;
• Cracks, scratches and other defects caused as a result of transportation and/or operation of the device by the Customer or acts of negligence on their part;
• Mechanical damages that occurred after transferal of the device to the Customer including damage caused by sharp objects, bending, squeezing, falling, etc.;
• Any damage caused by non-conformity with the standards of power supply, telecommunication and cable networks or similar external factors.

THE PRESENT LIMITED WARRANTY IS AN EXCLUSIVE AND THE ONLY PROVIDED GUARANTEE THAT SHALL REPLACE ANY OTHER EXPRESS AND IMPLIED GUARANTEES. THE MANUFACTURER SHALL PROVIDE NO GUARANTEES, WHETHER EXPRESS OR IMPLIED, BEYOND THE DESCRIPTION CONTAINED IN THE PRESENT DOCUMENT, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE CUSTOMER MAY USE DEFECTIVE OR INAPPLICABLE DEVICE AT HIS/HER OWN DISCRETION. THE MANUFACTURER SHALL NOT BE RESPONSIBLE FOR DAMAGE TO OTHER PROPERTY CAUSED BY DEVICE DEFECTS, THE LOSS OF USABILITY OR TIME OR FOR ANY SPECIAL, INCIDENTAL, INDIRECT OR CONSEQUENTIAL DAMAGE OR LOSS INCLUDING BUT NOT LIMITED TO COMMERCIAL LOSS, LOSS OF PROFITS, LOSS OF CONFIDENTIAL OR OTHER INFORMATION, AS WELL AS DAMAGES CAUSED BY BREAKS IN COMMERCIAL OR PRODUCTION ACTIVITIES DUE
TO THE FACT THAT THE DEVICE WAS RECOGNIZED AS FAULTY, DEFECTIVE OR NOT ALLOWED FOR USAGE.

The present limited warranty shall provide the Customer with certain legal rights. The Customer may also have other rights in accordance with the local consumer protection laws that vary from country to country and may not coincide with this limited warranty. For full understanding of the Customer’s rights, you shall read local acts.

**NOTE.** The Manufacturer does not produce equipment for *Vital Tasks*. Vital Task Products shall include life support systems, medical equipment, implantation-related medical devices, commercial transportation, nuclear equipment or systems, and any other fields of application where equipment failures may do harm to a humans’ health or cause their deaths, as well as result in a property damage.
5 Storage, Transportation and Disposal of Devices

The Perenio® Power Link device may be shipped by any kind of covered vehicles (by rail, or road or in sealed heated airplane compartments, etc.) in accordance with the requirements of current regulatory documents applicable to fragile goods sensitive to moisture.

Similar conditions shall apply to the device storage at the Seller’s warehouse.

It is also required to comply with the temperature and humidity conditions of storage and operation specified in the Table of technical specifications of the present Manual.

For disposal of devices and/or batteries, the User shall observe rules of the Directive on Waste Electrical and Electronic Equipment (WEEE) according to which all electric and electronic products, as well as batteries must be disposed of separately at the end of their service life. Such devices and accessories must not be disposed of together with unsorted municipal waste due to their potential to cause harm to the environment.

For the device disposal purposes, it shall be returned to the point of sale or to the local processing center.

For detailed information on recycling of the present device, please contact your waste management company.

**NOTE.** The User must comply with the temperature and humidity conditions of storage and transportation specified in the Table of technical specifications of the present Installation and Operation Manual.
# 6 Other Information

## Manufacturer

<table>
<thead>
<tr>
<th></th>
<th>Perenio IoT spol s r.o.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>Perenio IoT spol s r.o.</td>
</tr>
<tr>
<td>Address</td>
<td>Na Dlouhem 79, Ricany – Jazlovice 251 01, Czech Republic</td>
</tr>
<tr>
<td>Contact Info</td>
<td>perenio.com, <a href="mailto:info@perenio.com">info@perenio.com</a></td>
</tr>
</tbody>
</table>

## Manufacturing Plant

<table>
<thead>
<tr>
<th></th>
<th>Power 7 Technology (DongGuan) Co., Ltd.</th>
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<tbody>
<tr>
<td>Name</td>
<td>Power 7 Technology (DongGuan) Co., Ltd.</td>
</tr>
<tr>
<td>Address</td>
<td>No.28 Binjiang Street, Shishuikou Village, Qiaotou Town, Dongguan City, Guang Dong Province, China</td>
</tr>
</tbody>
</table>

## Importing Company

### Croatia

<table>
<thead>
<tr>
<th></th>
<th>ASBISc-CR d.o.o.</th>
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<tr>
<td>Name</td>
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</tr>
<tr>
<td>Address</td>
<td>Slavonska avenija 24/6, 10000 Zagreb, RH</td>
</tr>
</tbody>
</table>

### Czech Republic

<table>
<thead>
<tr>
<th></th>
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<tr>
<td>Address</td>
<td>Obchodní 103, Čestlice, 25101</td>
</tr>
</tbody>
</table>

### Poland

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<tr>
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<th>ASBIS POLAND Sp. z o.o.</th>
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<tbody>
<tr>
<td>Name</td>
<td>ASBIS POLAND Sp. z o.o.</td>
</tr>
<tr>
<td>Address</td>
<td>Ul. Szyszkowa 43, 02-285 Warszawa</td>
</tr>
</tbody>
</table>

## Quality Claims Acceptance and Warranty Service Company

### Croatia

<table>
<thead>
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</tr>
</tbody>
</table>
Czech Republic
Name | ASBIS CZ, s.r.o.
Address | Obchodní 103, Čestlice, 25101

Poland
Name | ASBIS POLAND Sp. z o.o.
Address | Ul. Szyszkowa 43, 02-285 Warszawa

Info on Certificates and Declarations

| Certificates | EC-RED Certificate #IP19102934 as of October 22, 2019 |
| Declarations, Reports | EMC Test Report #IP19102934 as of October 22, 2019; LVD Test Report #IP19102934 as of October 22, 2019; RF Exposure Test Report #IP19102934 as of October 22, 2019; Radio Test Report #IP19102934 as of October 22, 2019. |

Addresses of Service Centers are available at perenio.com in the ‘Support’ Section.
# 7 Troubleshooting

Table 4 below shows typical errors and problems that may occur in the process of connection and configuration of the Power Link device.

**Table 4 – Typical Errors and Troubleshooting Methods**

<table>
<thead>
<tr>
<th>Item No</th>
<th>Problem</th>
<th>Possible Reasons</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>The LED Indicator does not light up</td>
<td>Power supply failures</td>
<td>Make sure that the power plug is plugged in and switched on, or contact Tech Support Department</td>
</tr>
<tr>
<td>2</td>
<td>Timer settings disappeared</td>
<td>Reset to factory settings was performed</td>
<td>Set timers again</td>
</tr>
<tr>
<td>3</td>
<td>The power plug changes status to “offline” unexpectedly</td>
<td>Power supply failures, or it is out of ZigBee/Bluetooth coverage</td>
<td>Make sure that the power plug is plugged in and switched on, or reduce the distance to the Control Gateway/IoT Router</td>
</tr>
</tbody>
</table>
8 Glossary

**Amazon Alexa**  A virtual assistant that supports voice communication and control of smart home devices.

**Apple HomeKit**  A software framework that allows to use a device based on the iOS operating system in order to configure, communicate and manage smart devices.

**Google Home**  Wireless speaker for managing smart devices with Google Assistant.

**IoT**  The Internet of Things is a system of Internet-connected devices able to collect and exchange data coming from built-in services.

**IP20**  The degree of protection of the device, indicating that the parts inside the case are protected from the penetration of fingers or objects longer than 80 mm and solid bodies larger than 12 mm. No moisture protection.

**MFi**  Made for iPhone/iPod/iPad

**Perenio Smart**  Software developed by Perenio IoT for remote control of wireless Cameras from smartphones.

**UL94-V0**  A class of plastic that provides for self-extinguishing of the material within 10 seconds on a vertically mounted sample. Formation of droplets from non-combustible particles is allowed.

**Yandex Smart Home**  An application that allows to control smart devices through the Alice voice assistant.

**ZigBee**  A network protocol designed for secure transmission of data at low speeds, which is recognized for an extremely low power consumption.

**Location**  General term which means a building or a structure in which Perenio® Cameras, Control Gateways and/or Sensors are installed.

**CG**  The Perenio® PEACG01 Control Gateway.