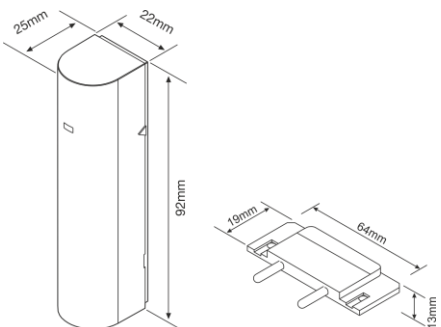
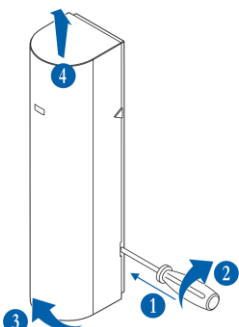
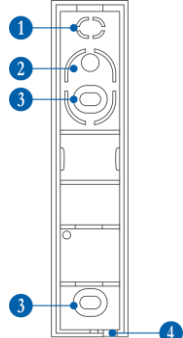
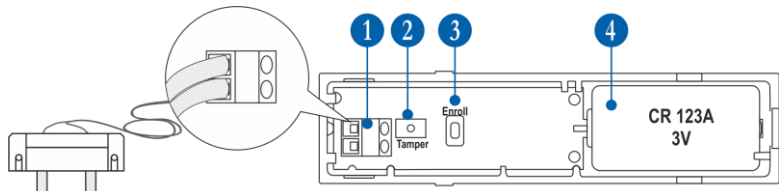
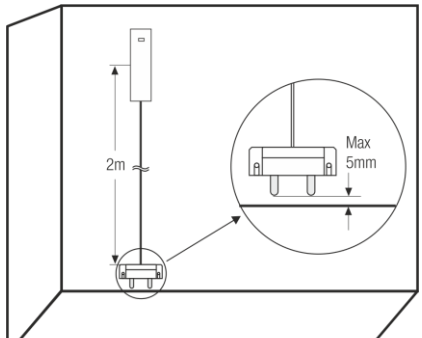
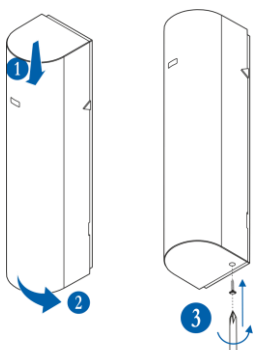


**ATTENTION:** Read carefully this installation Instructions before installing the device! This manual is subject to change without notice!

## 1. Installation

<p><b>1 General view &amp; Dimensions</b></p> 	<p><b>2 Opening the front cover</b></p> 	<p><b>3 Mounting the base</b></p>  <p>1 - Cable running hole, knock out plate 2 - Back-tamper knock out plate (against unauthorized dismantling) 3 - Mounting holes 4 - Hole for fixing the cover to the bottom with a screw (optional, against unauthorized opening, according to EN50131-1 and EN50131-3) – see 6</p>
<p><b>4 PCB Elements and Flood sensor connection</b></p>  <p>1 - Terminals for connecting the flood sensor. There is not polarity of the connection. <b>Attention: Do not cut or change the length of the water sensor connection wires!</b> 2 - Tamper switch 3 - Operation button (used for Enrolment, Reset and Radio signal check) 4 - Battery 3V CR123A*</p> <p><small>* Use only Panasonic, IEC 60086 tested batteries</small></p>		<p><b>5 Installation place</b></p>  <p>1 - Cable running hole, knock out plate 2 - Back-tamper knock out plate (against unauthorized dismantling) 3 - Mounting holes 4 - Hole for fixing the cover to the bottom with a screw (optional, against unauthorized opening, according to EN50131-1 and EN50131-3) – see 6</p>
<p><b>6 Closing and securing the front cover</b></p>  <p>For securing the cover to the bottom, use the little pan head screw from the supplied kit with spare parts.</p>		

## 2. General Information

PAX FL is a wireless flood detector with two main parts – control body and water sensor.

PAX FL is compatible for operation with:

- **BRAVO Next** wireless control panel, for building of fully wireless security systems.
- **PAX WL Expander** module, for building of hybrid security systems with Eclipse series control panels.

**Attention:** The minimum distance between BRAVO Next or PAX WL Expander and enrolled to it wireless PAX FL flood detector must be 1 meter to guarantee the correct operation of the system.

### Technical Specifications:

Battery (type CR123A) ..... 1 x 3 V/ 1500mAh  
Battery life (max. without LED) ..... ~ 7 years  
Low voltage threshold..... 2.6V  
Current consumption (TX/Standby)..... 26 mA / 4 µA  
RF communication type..... Bidirectional  
Operation frequency..... ~868 MHz  
Radio distance (open space) ..... Up to 1500m  
Hardware water sensor input..... 1  
Working temperature ..... -10°C - +50°C  
Storing temperature..... - 40°C - +50°C  
Connection wires..... 2x0.35mm, 2 meters long  
Dimensions (control body) ..... 22 x 92 x 25 mm  
Dimensions (water sensor) ..... 64 x 19 x 13 mm  
Weight (incl. battery and sensor) ..... ~80 g

### Main Functional Features:

- 24-hour alarm zone for prevention of flooding
- Front cover and rear (anti-tear) tamper
- Indication for the signal strength (RSSI)
- Bi-color LED
- Events transmitted: Zone alarm, Tamper activation, Low battery
- Indoor use
- Beacon+ protocol type for wireless communication

## 3. Enrolment

(You should also refer to BRAVO Next and PAX WL Expander module full installation and operation manuals for more details)

**Note:** For already used PAX FL detectors, first perform RESET procedure.

- Enter in Device Programming menu of the used control panel.
- Select a free wireless device number.
- Enrol the detector as:  
If the PAX FL is new: Remove the protection folio from the battery – the LED lights on in red followed by a green blink, and after that the enrolment procedure starts automatically. If the automatic enrolment is failed, press the ENROLL button to initiate the process again.  
If the PAX FL has been already used: Press the ENROLL button on the PCB - the LED will blink fast in red for a while.
- The enrolment is successful, if in a time interval up to 30 seconds, the device LED lights on in green, and after that starts blinking in orange, which means that the device is selected. Make a radio test on the place of installation of the device as press the ENROLL button once and wait for LED indication – see item 5.
- In case PAX FL is enrolled to PAX WL Expander module, select a free zone number and attach the detector to it. Then, set the type of the zone, according the system configuration.

## 4. Resetting

Resetting is a procedure for restoring the default factory settings of a device. It is necessary to perform, when the device is moved to new system installation and must be enrolled to new control panel.

- Remove the cover of the PAX FL.
- With battery on press and hold the ENROLL button for at least 7 seconds.
- The reset is completed when the green LED blinks shortly three times, followed by one long red flash and one long green flash.
- Next pressing of the ENROLL button will activate the enrolment procedure described at item 3.

## 5. Performing Radio Test

**Note:** Perform the radio test just after the enrolment of the device and at the place of installation, as in that way you can choose the place with the best signal coverage.

The radio test should be performed in order to check the signal strength on the site and the quality of the communication between the control panel and the PAX wireless devices.

The radio test can be performed directly after the enrolment of the device and after that during the maintenance of the system.

To perform a radio test of a device:

- Remove the cover of the device to access the PCB.
- Press the ENROLL button - the LED(s) will blink single in green. Up to 30 seconds the device will inform for signal coverage with a new indication with the following meaning:
  - 3 blinks in green - the signal coverage is good and there is a stable communication between the device and the panel;
  - 3 blinks in red - no signal coverage and communication between the device and the panel;
  - 3 blinks in yellow – there is a signal coverage, but the communication between the device and the panel is unstable. In this case it is recommended to change the place of installation and to perform a new radio test.

## 6. Default Settings

The LED operation of PAX FL can be enabled or disabled.

PAX FL comes with enabled LED operation, as this setting is available for adjustment only via the control panel or programming software.

## 7. Replacing the Battery

**Attention:** Use only Panasonic batteries approved by the manufacturer, type CR123A 3V/1500mAh! Use only IEC 60086-4 tested batteries!

To replace the battery with new:

- Remove the cover of the detector's enclosure.
- Remove the battery.
- Press several times the ENROLL button.
- Wait for 10-15 seconds and place the new battery as observe the polarity.
- The LED lights in sequence in red, then in green.
- Mount back the cover of the device enclosure.

**SAFETY PRECAUTIONS:** Keep new and used batteries away from children! If the battery compartment does not close securely, stop using the product and keep it away from children's reach. If swallowed, the coin-sized batteries can cause serious injuries and burns in just 2 hours. In case of any doubt for swallowing of a battery, seek for medical help immediately!



### Environmental Protection

Directive of batteries disposal – Information for the user (2013/56/EO)

The used batteries from devices, after changing with new ones, should not be disposed together with another household waste. The chemical elements, used in the batteries can seriously harm the man's health and the outdoor environment.

The recycling of the used batteries and waste of batteries contributes for protection, keeping clean and improving the outdoor environment.