# POE-SEA+®

## Wi-Fi when the pupils need it, not around the clock




PoE-Sea+® switches the Wi-Fi on and off, classroom by classroom, with a battery-free switch.

It works with the access points the school already has, whatever the brand: nothing to replace in the infrastructure.

## Why manage the Wi-Fi of the school?

In most schools the Wi-Fi is on 24 hours a day, 365 days a year, even though the pupils use it a few hours a day.

**Less screen time**: the Wi-Fi is on when the lesson needs it, and off the rest of the time. **Lower power consumption**: up to 85 % less electricity for the access points, when the Wi-Fi is only on during school hours.

**Better data security**: a wireless network that is off cannot be attacked in the evening, at weekends and during the holidays. **Fewer radio waves**: the access point is really off, not just on standby.

Many parents and teachers want fewer radio waves in the classroom. With PoE-Sea, the access point sends nothing when the Wi-Fi is not used.

## Easy to install

PoE-Sea+® is installed between the PoE switch and the Wi-Fi access point, with its two RJ45 connectors for input and output. When it cuts the PoE power, the access point is off: no Wi-Fi, no radio waves and no power consumption.

PoE-Sea+® is powered by the PoE switch and receives the commands of one or more EnOcean switches. One to four classrooms can share and control the same access point, at a distance of about 30 metres.

The switch sits on the wall or on the desk of the teacher. The teacher switches the Wi-Fi on as simply as the light. If someone forgets, PoE-Sea+® switches the Wi-Fi off after an adjustable delay.

## Ready to use

PoE-Sea+® works with **all access points** powered by PoE (802.3 af/at/bt). A dedicated function prevents the access point from being switched off while it starts up.

Each PoE-Sea+® follows its weekly schedule, also without internet: Wi-Fi off at the end of the day, switches locked during breaks, at night and at weekends.

With the **PoE-Sea Link** gateway, the PoE-Sea+® of the building are connected to the PoE-Sea cloud service: remote control, schedules, statistics that document the screen use, network map and software updates.

Locally, PoE-Sea+® and the switches are managed with the PoE-Sea Master software and the PoE-Sea+® Survey USB key, wirelessly and securely.

**Quick installation**
Between the network socket and the access point

**All brands**
All PoE access points (802.3 af/at/bt)

**Radio silence**
Wi-Fi off when it is not used

**No battery**
PoE-Sea+® and the switches need no battery

**Remote control**
PoE-Sea cloud service

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enocean alliance
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**Developed and produced 100 % in Norway**
by Wattlet AS in Lillehammer

**www.poe-sea.no**

# Technical specifications

## PoE-Sea+ ®

Reference: ENO-POE-SEA+-KT1 or KT0 (supplied with one switch or alone)
Patent: FR2014191
Dimensions (mm) with the mounting base: 107 (L) x 30 (H) x 76 (D)
Weight: 145 g (PoE-Sea+ alone), 270 g (box with switch and RJ45 cable)
Protection rating: IP20. Operating temperature: -10 °C to 50 °C
EnOcean profiles (EEP): F6-02-01, F6-02-02
EnOcean radio: TCM515 or 615 | 868.3 MHz (Europe)
Operating mode: EnOcean receiver / repeater (if enabled)
Number of channels: 4. Pairing: four groups of switches per PoE-Sea (16 maximum)
Configuration: through the USB port, or wirelessly with the PoE-Sea+ Survey USB key
Compatibility: any PoE switch or PoE injector (802.3 af/at/bt) on the input port ETH IN
Power supply: PoE 802.3 af. Consumption at start-up: 6 W | class II
Consumption with Wi-Fi off: < 1 W | class II. With Wi-Fi on: 1 W + the consumption of the connected equipment
Ports: 2 RJ45 (input and output) and an OPTION port for future accessories
Warranty: 4 years

## EnOcean switch

Reference: ENO-INTS-CMD-1
Dimensions (mm): 80 (L) x 80 (W) x 15 (H). Weight: 53 g
Protection rating: IP20. Operating temperature: -10 °C to 50 °C
EEP: F6-02-01. Frequency: 868.3 MHz (Europe). Transmit power: 10 mW max
Two-channel switch, can be paired with one or more PoE-Sea® and with any EnOcean F6-02-01 equipment
Range: 30 metres indoors between the PoE-Sea® and each switch
Warranty: 4 years

## PoE-Sea+ ® Survey EnOcean USB key

Reference: ENO-POE-SEA+-SRV. EnOcean module: TCM310
SMA connector with external antenna (868.3 MHz). Sensitivity: -96 dBm
Two LEDs show the power and the traffic
Interface: USB, virtual COM port (ESP3). FTDI driver for Windows, Linux and Mac
Dimensions (mm): 72 (L) x 23 (W) x 9 (H). Warranty: 4 years

### Made in Norway

PoE-Sea is designed, developed and produced by Wattlet AS in Lillehammer. The circuit boards are assembled on its own production line, and each product is tested on the test bench before it is shipped.

### EnOcean

The EnOcean protocol is defined by the ISO/IEC 14543-3-10 standard, the first standardised wireless protocol for energy harvesting.

### No battery, no cable

The switch takes its energy from the press of the finger. The radio signal (868 MHz) is only sent at that moment. PoE-Sea+® itself sends no radio signal.

### Data security

PoE-Sea+® sits on the network cable but exchanges no data with the IP network. The EnOcean commands are encrypted, and a user code protects the configuration and the control of the access points.

EnOcean, Linux, Mac, PoE-Sea, PoE-Sea+, Windows: all the brands mentioned belong to their respective owners.

Non-contractual sales documentation. The information may change without notice.

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