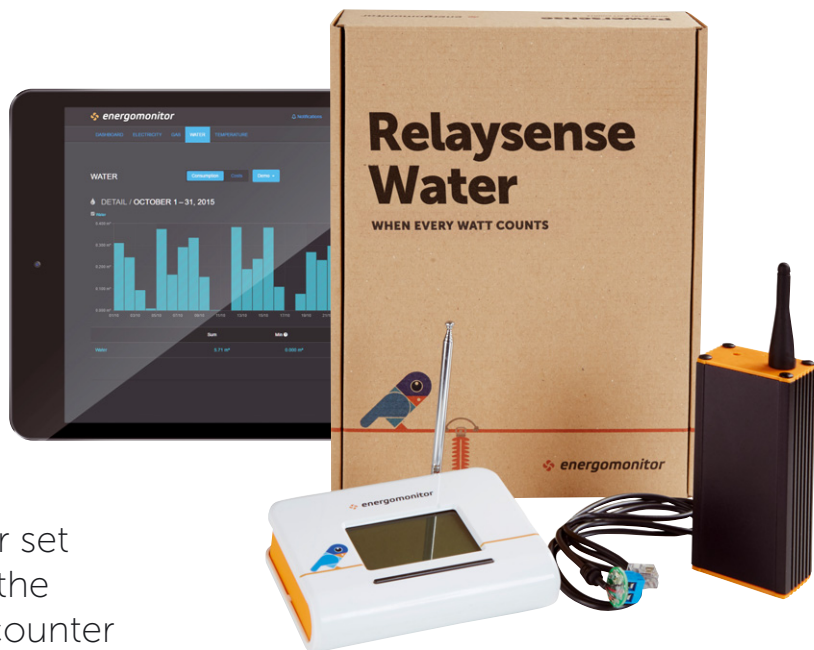


# Relaysense Water

Energomonitor will provide you with a complete overview of your energy consumption.

The Energomonitor Relaysense Water set measures the water consumption of the supply point by reading the impulse counter on an equipped water meter.



## Why choose Energomonitor

- ▶ **comprehensive information** about consumption, not only in litres, but also provides the monetary cost monitoring
- ▶ **real time water consumption, data saved every 90 seconds**, you can browse through the history anytime
- ▶ alerts in case of **emergency conditions**
- ▶ warnings about changes in **long-term conditions**
- ▶ works as a **watchdog** and inspects if everything is in order or as you expect in your household or company
- ▶ relevant **suggestions for potential economy drive**
- ▶ **the measured data is accessible anytime and anywhere**, from any computer, tablet or mobile phone

## Energomonitor Relaysense Water set contains:

- Energomonitor Homebase (with 230 V power supply)
- Energomonitor Transmitter
- Relaysense Water Probe (concrete type in accordance with needs)
- Water meter with impulse output
- Ethernet cable
- All packed in a nice paper box

## Energomonitor Relaysense Water set can be expanded by:

- **Temperature measuring** (UNIT Thermosense set)
- **Electricity consumption measuring** by connecting to phases (UNIT Powersense set)
- **Optical measuring of electricity consumption** (UNIT Optosense set)
- **Gas consumption measuring** (UNIT Relaysense Gas set)



**PLEASE, TAKE A LOOK**  
at the demo of the application on  
[energomonitor.com/demo](http://energomonitor.com/demo)



# Technical details of the hardware

## Energomonitor Relaysense Water Probe



- The Relaysense Water probe reads the impulse counter from reed switch on an equipped water meter.
- The probe sends the measured values to the Transmitter which is connected with the probe by a cable.

## Energomonitor Relaysense Water Transmitter



- The Transmitter is attached near the water meter, collects the measured values from the probe and wirelessly sends the data to the Homebase every 6 seconds.
- Each Transmitter can be equipped with one Relaysense Water probe.
- The radio signal of the Transmitter can reach the Homebase up to 200 meter distance.
- Transmitter is designed in high quality metal plastic with various types of antenna.

## Energomonitor Homebase



- The Homebase continually receives the values measured by the Transmitters, which are paired with it, and sends this data to the Energomonitor cloud servers, where the data is processed and followingly visualized in the web application connection. The Homebase has to be connected to the internet via ethernet cable.
- One Homebase can accept data from 30 transmitters at the same time. This means that one unit is frequently sufficient to completely satisfy the needs of most of the supply points.

PHYSICAL SIZE		
cable: 1 m	45 × 92 × 29 mm (without antenna)	110 × 80 × 26 mm (without antenna)
POWER SUPPLY		
—	2 × exchangeable AA alkaline battery 1.5 V	5V DC, 500 mA, USB-B
RADIO PROTOCOL		
—	proprietary protocol Chirp, working in 433 MHz band (868 MHz optionally)	proprietary protocol Chirp, working in 433 MHz band (868 MHz optionally)
INTERFACE		
1 × pulse output	1 × pulse input	RJ-45 10/100 Mb/s, RS-232
RANGE OF METERING		
> 100 ms width of pulses	2 <sup>^</sup> 32 imp. counter	—
RESOLUTION OF METERING		
—	1 W	—
CONVERSION CONSTANT ADJUSTABLE		
—	2000 imp/m <sup>3</sup>	—
CONSUMPTION		
—	> 2 years battery life time	2 W max.
WORKING CONDITIONS		
from -20 °C to +60 °C, 10 to 90 % RH	from -20 °C to +60 °C, 10 to 90 % RH	from 0 °C to +60 °C, 10 to 90 % RH
TYPE OF ANTENNA		
—	SMA connector for external aerial	telescopic (433 MHz band) internal (868 MHz band)