



# Meter Reader

---

RPS1005  
RPS1015



## Table of Contents

Introduction	1
Pulse Reader Overview	2
Installation	3
Safety Information	7
About GreenWave	10

# Introduction

---

The GreenWave Reality platform helps create a smart, energy-efficient home through the monitoring and controlling of your appliances and electronics (referred to as “devices”). You can conserve energy with minimal impact to your lifestyle by using our products to easily manage your devices. Simply connect our Gateway to your GreenWave Reality energy management system, plug your devices into our PowerNodes, and then monitor and control the devices’ power usage through a Web browser or smartphone application.



## Pulse Reader Overview

---

The GreenWave Reality Pulse Reader connects to your electric and/or gas meters to measure energy usage. The information read through the Pulse Reader can then be transmitted to your GreenWave Reality Gateway so that you can monitor and control your energy use.

The Pulse Reader is weather-resistant and designed to be mounted next to your electric and/or gas meters.



# Installation

---

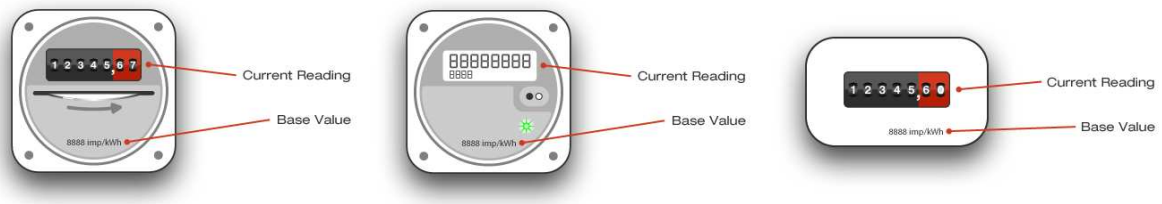
You must follow several installation steps to connect your Pulse Reader to your meter. These steps include:

- Preparing for installation
- Attaching the self-adhesive template to the meter to ensure accurate placement of the sensors
- Attaching the Pulse Reader sensors to your meter(s)
- Installing batteries, if they are not already pre-installed
- Securing the Pulse Reader unit in place near your meter(s)

## 1. Prepare for Installation

Before you can connect the Pulse Reader, you must first locate the area on your meter(s) where you will attach its sensors. You should clean the area to ensure it is free from dirt or grease. If your specific setup process requires you to record your current meter readings, then make note of them before you begin installation to avoid any obstructed view of the meter after attaching the Pulse Reader sensors. You may need to note both the

**current reading** and the **base value**: The exact target area on your meter depends on whether it is an electric or gas meter, as well as the specific type.



## 2. Attach Template to Meter

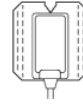
Since placement of the Pulse Reader cable sensor on the meter is critical, your kit includes self-adhesive templates to help you align the sensor. Visually align the marking on the template to the target placement on your meter. When you are sure of the placement and where to align the marking on each template, remove the adhesive backing from the template and stick it to the meter. Be careful to ensure that the template's marking is placed exactly over the target sensor placement on the meter.

After sticking the template to your meter, remove the middle portion of the template that contains the alignment marking. This area is perforated to help you remove it. You should be left with two sides of the template still stuck to your meter. This is the area where you will align the Pulse Reader sensor.

### 3. Attach Sensor to Meter

Before removing the adhesive backing from the cable sensor, make sure it aligns correctly over the open area of the template. The grey-colored sensor attaches to your gas meter, and the white-colored sensor attaches to your electric meter. As you align the sensor over the template, make sure there will be no overhang of the sensor that might extend far over the template area.

If necessary, the edges of the sensor are perforated to allow you to break it to make the surface area smaller.



When you are sure of the placement and fit of the cable sensor, remove its adhesive backing and stick the sensor to the open area of the template. The sensor should stick directly to the meter and not to the template edges. When the sensor is securely attached to the meter, you can remove the template edges by peeling them off of the meter.

### 4. Install Batteries

Your Pulse Reader comes with four AA lithium (FR6) batteries. If these batteries are not already pre-installed, then remove the cover from the battery compartment on the back of the Pulse Reader unit, insert the batteries as indicated on the markings in the battery compartment, and then replace the cover.

**CAUTION: RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.**



## 5. Secure Pulse Reader Next to Meter

Using the self-adhesive Velcro strips, mount the Pulse Reader unit to a stable location near your meters. Make sure there is no tension on the sensor cables attached to the meter.

# Safety Information

---

## Batteries

Use only lithium FR6 AA batteries.

**WARNING:** Batteries can explode, or leak, and can cause injury or fire. To reduce this risk:

- Carefully follow all instructions and warnings on the battery label and package.
- Always insert batteries correctly with regard to polarity (+ and -) marked on the battery and the equipment.
- Do not short battery terminals.
- Do not mix old and new batteries. Replace all of them at the same time with new batteries of the same brand and type.
- Remove dead batteries immediately and follow local regulations for safe disposal.
- Do not dispose of batteries in fire.
- Keep batteries out of reach of children.

- Transporting batteries can possibly cause fires if the battery terminals inadvertently come in contact with conductive materials such as keys, coins, hand tools, etc. The US Department of Transportation Hazardous Material Regulations (HMR) actually prohibits transporting batteries in commerce or on airplanes (i.e. packed in suitcases and carryon luggage) UNLESS they are properly protected from short circuits. So when transporting individual batteries, make sure that the battery terminals are protected and well insulated from materials that could contact them and cause a short circuit.

## Do Not Disassemble

Your Pulse Reader has no user-serviceable parts inside. In case of persisting malfunction, please contact Customer Service to arrange for repair at a certified service location. Do not attempt to disassemble the Pulse Reader for any reason.

## Disposing of Your Used Product

**This product complies with the WEEE Directive (2002/96/EC)** marking requirements. The affixed label indicates that you must not discard this electrical / electronic product in domestic household waste.

**WEEE Product Category.** With reference to the equipment types in the WEEE



Directive Annex 1, this product is classed as category 3 “IT and Telecommunications Equipment.”

**DO NOT DISPOSE IN DOMESTIC HOUSEHOLD WASTE.** To return unwanted products, contact your local GreenWave Reality office for more information (see contact information in the back of manual).

# About GreenWave

---

GreenWave Reality is a global innovator in the emerging home energy management market. GreenWave Reality provides an affordable, easy-to-use, standards-based platform that allows utilities to enhance their relationship with consumers and better balance energy on the grid while consumers can conserve energy with a minimal impact to their lifestyle by easily monitoring and controlling their appliances and adding intelligent LED lighting. GreenWave Reality is led by a diverse team of proven leaders with global experience.

## **NORTH AMERICA**

39 Parker, Suite 100  
Irvine, CA 92618  
USA

Tel. +1 714 805 WAVE (9283)  
na@greenwavereality.com

## **ASIA-PACIFIC**

41 Science Park Road  
#01-01 The Gemini (Science Park II)  
SINGAPORE 117610

Tel. +65 3157 1700  
apac@greenwavereality.com

## **EUROPE**

GreenWave Reality ApS.  
Dr. Neergaardsvej 3  
2970 Hørsholm  
DENMARK

Tel. +45 6913 2333  
eu@greenwavereality.com

**Document Version**

1.01

**Model Numbers**

RPS1005-PD62, RPS1015-PD62



#### **Federal Communication Commission Interference Statement**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

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.

#### **IMPORTANT NOTE:**

##### **FCC Radiation Exposure Statement:**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20cm between the radiator and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.



#### Declaration(s) of Conformity

These CE Marked GreenWave Reality products incorporating Radio and Telecoms Terminal Equipment functionality are in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

A copy of the original CE Declaration of Conformity is on file and available upon request for all CE Marked GreenWave Reality products. Please visit [www.greenwavereality.com](http://www.greenwavereality.com) to obtain a copy of the Declaration.

The use of such device might not be harmonized throughout EU and EFTA Member States. The Final Integrator of the product shall check that the use of such devices for power node are allowed for placing on the market in any particular Member State.



[www.greenwavereality.com](http://www.greenwavereality.com)



 Make a difference now™