# PTSPW3100 Solar Powered Tower Gateway
## Data Sheet

## Product Overview

The PTSenR PTSPW3100 function of the solar powered tower gateway station: passive wireless temperature sensor installation, outdoor tower installation, solar energy reception followed by direct sunlight, data reception, solar energy storage management, GPRS forwarding and power management. The above functions are combined to complete a self-circulating system.
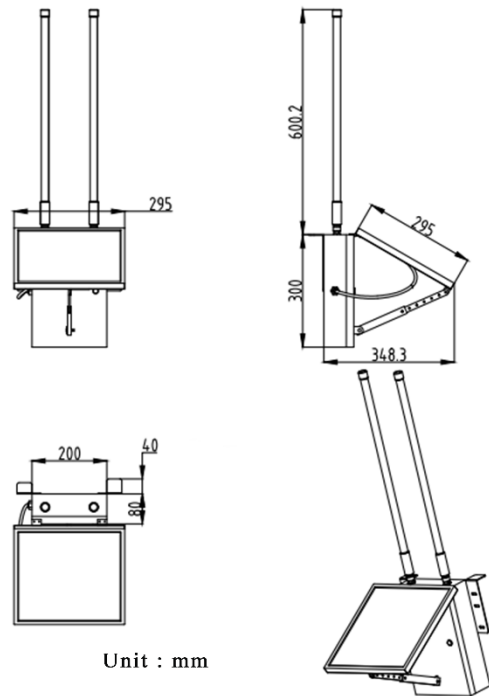
## Features

- Easy to operate. Wireless transmission without wiring.
- High reliability. Meet the requirements of harsh environments on site with EMC protection design.
- High security. The use of distribution network proprietary security protection chip, to meet the requirements of the distribution terminal security protection program.
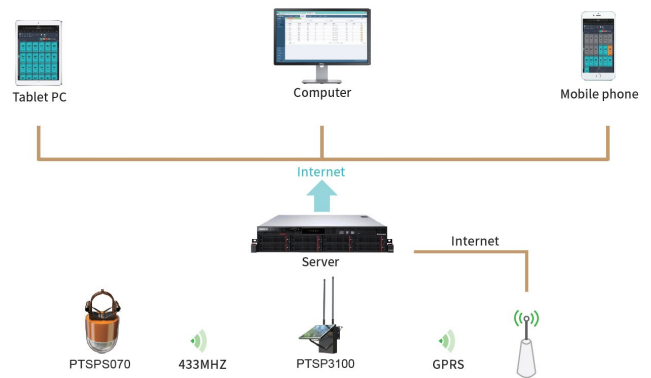- Installation flexibility. Solar energy plus battery power supply.

## Installation



## Dimensions



Unit : mm

## The System Architecture



## Specification

| | |
|---|---|
| Operation Supply | Solar Powered with Battery |
| Communication | GPRS |
| Power Consumptions | <1W |
| Battery Type | Lithium |
| Solar Panel Power | 10W |
| Solar Panel Voltage | 18V |
| Wireless Bandwidth | 433MHz (Zigbee) |
| RF Max Receiving Sensitivity | -110dBm @ 1Kbps |
| Protection Class Housing | IP 65 |
| Weight | 5kgs |
| Relative Humidity (RH) | 10% RH to 95%RH (non-condensing) |
| Operating Temperature | -45°C ~ 85°C |
| Temperature measuring range | -45°C ~ 85°C |
| Installation | Bracket Fixed |
| Certification<br>2014/35/EU LOW VOLTAGE DIRECTIVE;<br>2014/30/EU ELECTROMAGNETIC COMPABILITY DIRECTIVE | CE – EN 61000-6-2:2005+AC, EN 61000-6-4:2007+A1:2011, EN 62366-1:2014+A11:2017 |

### Ordering Information

| Part Number | Product Description |
|---|---|
| PTSP3100 | PTSenR Solar Powered Tower Gateway |