

# Datasheet

Rev. 1.0

Apr 15, 2014

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## History

<b>Version</b>	<b>Date</b>	<b>Note</b>
V1.0	2014-04-15	Initial Release

### Notes:

Hardware Version: 1.1

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Fig.1 Z311W Appearance

## Introduction

Z311W is attached with two water sensors for flood detecting and reporting. While flood is detected, Z311W sends the warning message to it's enrolled CIE (a security central) device in the network to notify the user.

Z311W integrates EM357 chip and is a 2.4GHz ISM band transceiver. Z311W is based on ZigBee Pro. It communicates with the coordinator, router, and end device in the network.

## Technical Parameters

### Electric

Input power	2 pcs 3.0V CR2450 button batteries
Standby mode	1uA/3.0V
Transmitting mode(max)	43mA/3.0V
Receiving mode(max)	28mA/3.0V

### Frequency

Frequency	2.4 — 2.4835 GHz
Channel	16
Spread technique	DSSS (O-QPSK)
Data transfer rate	250 Kbps
TX power	7dBm
Rx sensitivity	-101dBm
Antenna type	Build-in antenna
Communication rang	100 m (line-of-sight)

### Physical

Dimension	57mm x 35mm x 15mm
Sensor dimension	43mm x 13mm x 12mm
Working Temp.	-10°C ~ 50°C
Storage Temp.	-40°C ~ 85°C