

# Datasheet

Rev. 0.1

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## History

Version	Date	Note
0.1	2017-12-23	Initial release

### Notes:

Hardware Version:

61Z7266801V0.3

61Z7266802V0.3

61Z7266803V0.2

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Fig.1 RA0713 Appearance (Image shown is for illustration purposes only. Actual product may vary.)

## Introduction

RA0713 can be used to detect soil temperature and humidity (connected to 5TE sensor) or soil moisture (connected to EC-5 sensor).

## Main Features

EC-5/5TE sensor detection

## Electric

Power supply	Adapter DC powered (12V/1.5A)
Working current	<90mA
RX current	11mA @3.3V
TX current	120mA @3.3V
EC-5 sensor resolution	0.1% vwc in mineral soil 0.25% vwc in growth medium
EC-5 sensor accuracy	+/-3%
5TE sensor resolution	0.08%vwc(between 0-50%vwc)
5TE sensor accuracy	+/-3%vwc (Typical)

## Frequency

Frequency Range	868MHz , 915MHz , 923MHz ( Note : must be configurated before shipping )
TX power	19dBm ( Typical )
Rx sensitivity	-121dBm (Frequency deviation=5kHz, Bit Rate=1.2kb/s)
Build-in antenna	Build-in antenna
Communication range	2km ( Typical output power )
Data transfer rate	1.2 ~ 50kbps
Spread technique	FSK/OOK

## Physical

Dimension	111mm*86mm*41mm
Working Temp	-10°C ~ +50°C
Storage Temp	-40°C ~ +85°C